

93303

**From:** Saoud, Christine  
**Sent:** Tuesday, May 06, 2003 9:58 AM  
**To:** STIC-Biotech/ChemLib  
**Subject:** sequence search

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MAY-6 2003

[31.0]

09/924,647

Please search SEQ ID NO:1 in the patent and commercial databases - do not include pending at this time.

thank you

Christine Saoud  
A.U. 1647  
CM1 - 10E03  
305-7519  
mailbox in 10B19

Technique: \_\_\_\_\_  
70

Searcher: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Location: \_\_\_\_\_  
Date Picked Up: 5/7  
Date Completed: 5/12  
Searcher Prep/Review: \_\_\_\_\_  
Clerical: \_\_\_\_\_  
Online time: \_\_\_\_\_

TYPE OF SEARCH:  
NA Sequences: 1  
AA Sequences: \_\_\_\_\_  
Structures: \_\_\_\_\_  
Bibliographic: \_\_\_\_\_  
Litigation: \_\_\_\_\_  
Full text: \_\_\_\_\_  
Patent Family: \_\_\_\_\_  
Other: \_\_\_\_\_

VENDOR/COST (where applic.)  
STN: \_\_\_\_\_  
DIALOG: \_\_\_\_\_  
Questel/Orbit: \_\_\_\_\_  
DRLink: \_\_\_\_\_  
Lexis/Nexis: \_\_\_\_\_  
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WWW/Internet: \_\_\_\_\_  
Other (specify): \_\_\_\_\_

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GenCore version 5.1.4\_p5\_4578  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: May 11, 2003, 02:13:03 ; Search time 5728 Seconds  
(without alignments)  
10857.663 Million cell updates/sec

Title: US-09-924-647-1  
Perfect score: 2137  
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Scoring Table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 2054640 seqs, 14551402878 residues

Total number of hits satisfying chosen parameters: 4109280

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

- Database : GenEmbl.\*
- 1: gb\_ba.\*
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  - 4: gb\_om.\*
  - 5: gb\_ov.\*
  - 6: gb\_pat.\*
  - 7: gb\_ph.\*
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Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

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2	2137	100.0	2137	6	AX092981	Sequence
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4	2137	100.0	2137	6	AX454492	Sequence
5	2137	100.0	2137	6	AX490970	Sequence
6	2137	100.0	2157	9	AF110400	Homo sapi
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8	1340.4	62.7	161505	9	AP001888	Homo sapi
9	551	30.5	651	6	AX481448	Sequence
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12	224.4	10.5	657	10	AB078900	Rattus no
13	219.2	10.3	1824	10	AF007268	Rattus no
14	217.6	10.2	1821	10	BC021328	Mus muscu
15	143.8	6.7	211118	2	AC073752	Mus muscu
16	124.6	5.8	154134	2	AC095937	Rattus no
17	124.6	5.8	168526	2	AC097677	Rattus no
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ALIGNMENTS

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DEFINITION	AX076894	Sequence	6	from Patent	WO0105836.	2137 bp	DNA	linear	PAT 22-FEB-2001
ACCESSION	AX076894	Sequence	6	from Patent	WO0105836.	2137 bp	DNA	linear	PAT 22-FEB-2001
VERSION	AX076894.1	Sequence	6	from Patent	WO0105836.	2137 bp	DNA	linear	PAT 22-FEB-2001
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REFERENCE	AX076894.1	Sequence	6	from Patent	WO0105836.	2137 bp	DNA	linear	PAT 22-FEB-2001
AUTHORS	AX076894.1	Sequence	6	from Patent	WO0105836.	2137 bp	DNA	linear	PAT 22-FEB-2001
TITLE	AX076894.1	Sequence	6	from Patent	WO0105836.	2137 bp	DNA	linear	PAT 22-FEB-2001

JOURNAL Patent: WO 0105836-A 6 25-JAN-2001;  
Genentech, Inc. (US)  
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Matches 2137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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VERSION AX092981.1 GI:13509466  
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1 (bases 1 to 2137)  
AUTHORS Stewart, T. A. and Tomlinson, E.  
TITLE Fibroblast growth factor-19 (fgf-19) nucleic acids and polypeptides  
and methods of use for the treatment of obesity  
JOURNAL Patent: WO 0118210-A 1 15-MAR-2001;  
Genentech, Inc. (US)  
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Db 2101 GAGTTTGTGTTTGTATATTAATGAGTGTGTTGT 2137

RESULT 3

AX403730

LOCUS AX403730 2137 bp DNA linear PAT 14-JUN-2002

DEFINITION Sequence 85 from Patent WO0077037.

ACCESSION AX403730

VERSION AX403730.1 GI:21437169

KEYWORDS human.

SOURCE Homo sapiens

ORGANISM Human

REFERENCE 1

AUTHORS Ashkenazi, A., Baker, K., Botstein, D., Desnoyers, L., Eaton, D. L., Ferrara, N., Fong, S., Gao, W. Q., Gerber, H., Gerlitsen, M. E., Goddard, A., Godowski, P., Gurney, A., Kljavin, I. J., Mather, J., Napier, M., Pan, J., Paoni, N., Roy, M., Tumas, D., Watanabe, C., Williams, P. M., Wood, W. I. and Zhang, Z.

TITLE Secreted and transmembrane polypeptides and nucleic acids encoding the same

JOURNAL Patent: WO 0077037-A 85 21-DEC-2000;

Genentech Inc. (US)

FEATURES

source Location/Qualifiers

1. 2137

BASE COUNT 422 a 648 c 598 g 469 t

ORIGIN

Query Match 100.0%; Score 2137; DB 6; Length 2137;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 2137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DEFINITION	Sequence 77 from Patent WO0208284.				
ACCESSION	AX454492				
VERSION	AX454492.1 GI:21713870				
KEYWORDS	human.				
SOURCE	human.				
ORGANISM	Homo sapiens				
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.				
AUTHORS	1 Baker, K.P., Ferrara, N., Gerber, H., Gerritsen, M.E., Guddard, A., Godowski, P.J., Gurney, A.L., Hillan, K.J., Marsters, S.A., Pan, J., Paoni, N.F., Stephan, J.P., Watanabe, C.K., Williams, P.H., Wood, W.L. and Ye, W.				
TITLE	Compositions and methods for the diagnosis and treatment of disorders involving angiogenesis				
JOURNAL	Patent: WO 0208284-A 77 31-JAN-2002; Genentech, Inc. (US); Baker, Kevin P. (US); Ferrara, Napoleone (US); Gerber, Hanspeter (US); Gerritsen, Mary E. (US); Goddard, Audrey (US); Godowski, Paul J. (US); Gurney, Austin L. (US); Hillan, Kenneth J. (US); Marsters, Scott A. (US); Pan, James (US); Paoni, Nicholas F. (US); Stephan, Jean-Philippe F. (US); Watanabe, Collin K. (US); Williams, P. Mickey (US); Wood, William I. (US)				
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Query Match	100.0%; Score 2137; Dh 6; Length 2137;				
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QY	121	GGGACAAAGCGCGCGCTGCTGCGCGGGCCGGGAGGGGCTTGGGGCTTGGGGCGG	180		
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RESULT 5
AX490970
LOCUS AX490970 2137 bp DNA linear PAT 16-AUG-2002
DEFINITION Sequence 77 from Patent WO0200690.
ACCESSION AX490970
VERSION AX490970.1 GI:22323822
KEYWORDS human.
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Baker,K.P., Ferrara,N., Gerber,H., Gieritsen,M.E., Goddard,A.,
Godowski,P.J., Gurney,A.L., Hillan,K.J., Marsters,S.A., Pan,J.,
Paoni,N.F., Stephan,J.P., Watanabe,C.K., Williams,P.M., Wood,W.I.
and Ye,W.
TITLE Compositions and methods for the diagnosis and treatment of
disorders involving angiogenesis
JOURNAL Patent: WO 0200690-A 77 03-JAN-2002;
Genentech, Inc. (US)
FEATURES
source Location/Qualifiers
1. .2137
/organism="Homo sapiens"
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## RESULT 6

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## DEFINITION

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**KEYWORDS**  
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1 (bases 1 to 2157)  
Xie, M.-H., Holcomb, I., Deuel, B., Dowd, P., Huang, A., Vagts, A.,  
Poster, J., Liang, J., Brush, J., Gu, Q., Hillan, K., Goddard, A. and  
Gurney, A.L.  
FGF-19, a novel fibroblast growth factor with unique specificity  
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JOURNAL  
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PUBMED  
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2 (bases 1 to 2157)  
Xie, M.-H. and Gurney, A.L.  
Direct Submission  
Submitted (01-DEC-1998) Molecular Biology, Genentech, 1 DNA Way,  
South San Francisco, CA 94080, USA  
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
1 (bases 1 to 1869)  
Strausberg,R.  
Direct Submission  
Submitted (03-DEC-2001) National Institutes of Health, Mammalian  
Gene Collection (MGC), Cancer Genomics Office, National Cancer  
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,  
USA  
NIH-MGC Project URL: <http://mgc.nci.nih.gov>  
Contact: MGC help desk  
Email: [cgapbs-remail.nih.gov](mailto:cgapbs-remail.nih.gov)  
Tissue Procurement: ATCC  
CDNA Library Preparation: Life Technologies, Inc.  
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
DNA Sequencing by: Sequencing Group at the Stanford Human  
Center, Stanford University School of Medicine, Stanford, CA 94305  
Web site: <http://www-shgc.stanford.edu>  
Contact: (Dickson, Mark) [mcdapaxil.stanford.edu](mailto:mcdapaxil.stanford.edu)  
Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers,  
R. M.

Clone distribution: MGC clone distribution information can be found  
through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>  
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VERSION  
AP001888.4 GI:15320476  
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ORGANISM  
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE  
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AUTHORS  
Hattori,M., Ishii,K., Toyoda,A., Taylor,T.D., Hong-Seog,P.,  
Fujiyama,A., Yada,T., Totoki,Y., Watanabe,H. and Sakaki,Y.  
TITLE  
Homo sapiens genomic DNA  
JOURNAL  
Published Only in Database (2000)  
REFERENCE  
2 (bases 1 to 161505)  
AUTHORS  
Hattori,M., Ishii,K., Toyoda,A., Taylor,T.D., Hong-Seog,P.,  
Fujiyama,A., Yada,T., Totoki,Y., Watanabe,H. and Sakaki,Y.  
TITLE  
Direct Submission  
JOURNAL  
Submitted (24-APR-2000) Masahira Hattori, The Institute of Physical  
and Chemical Research (RIKEN), Genomic Sciences Center (GSC);  
1-7-22 Suehiro-chou,Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan  
(E-mail:hattori@gsc.riken.go.jp URL:http://hgp.gsc.riken.go.jp/,  
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LOCUS AX481448 651 bp DNA linear PAI 16-AUG-2002  
DEFINITION Sequence 62 from Patent WO02055693.  
ACCESSION AX481448  
VERSION AX481448.1 GI:22316362  
KEYWORDS  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1  
AUTHORS Kreutzer, R., Limmer, S., Rost, S. and Hadwiger, P.  
TITLE Method for inhibiting the expression of a target gene  
JOURNAL Patent: WO 02055693-A 62 18-JUL-2002;  
Ribopharma AG (DE)  
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Best Local Similarity 100.0%; Pred. No. 1.8e-106; Mismatches 0; Indels 0; Gaps 0;  
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AB018122  
LOCUS AB018122 651 bp mRNA linear HPI 02-MAR-1999

DEFINITION	Homo sapiens mRNA for FGF-19, complete cds.
ACCESSION	AB018122
VERSION	AB018122.1 GI:4514717
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SOURCE	Homo sapiens fetal brain cDNA to mRNA.
ORGANISM	Homo sapiens
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS	1 (sites)
TITLE	Nishimura, T., Utsunomiya, Y., Hoshikawa, M., Ohuchi, H. and Itoh, N. Structure and expression of a novel human FGF, FGF-19, expressed in the fetal brain
JOURNAL	Biochim. Biophys. Acta 1444 (1), 148-151 (1999)
MEDLINE	99132028
REFERENCE	2 (bases 1 to 651)
AUTHORS	Itoh, N.
TITLE	Direct Submission
JOURNAL	Submitted (30-SEP-1998) Nobuyuki Itoh, Kyoto University, Graduate School of Pharmaceutical Sciences, Department of Genetic Biochemistry; Yoshida-Shimoadachi, Sakyo, Kyoto 606-8501, Japan (E-mail: itohnobu@pharm.kyoto-u.ac.jp, Tel:81-75-753-4540, Fax:81-75-753-4600)
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LOCUS Mus musculus fibroblast growth factor (FGF-15) mRNA, complete cds.
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ACCESSION AF007268
VERSION AF007268.1 GI:2257958
KEYWORDS
SOURCE
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 1824)
McWhirter,J.R., Goulding,M., Weiner,J.A., Chun,J. and Murre,C.
A novel fibroblast growth factor gene expressed in the developing
nervous system is a downstream target of the chimeric homeodomain
oncoprotein E2A-Pbx1
Development 124 (17), 3221-3232 (1997)
97454242
9310317
2 (bases 1 to 1824)
McWhirter,J.R., Goulding,M., Weiner,J.A., Chun,J. and Murre,C.
Direct Submission
Submitted (06-JUN-1997) Biology, UC San Diego, 9500 Gilman Drive,
La Jolla, CA 92093, USA
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GenCore version 5.1.4\_p5\_4578  
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

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19	203.8	9.5	231	22	AAH34722	Human colon cancer
c 20	93	4.4	93	20	AAV72458	Human PRO533 clone
21	87.4	4.1	882	22	AAO9151	Human fibroblast g
22	87.4	4.1	939	24	ABK35574	cDNA encoding huma
23	87.4	4.1	1117	24	AAO28493	Human extracellula
c 24	86.4	4.0	93	20	AAV72459	Human B03767 genom
25	85.2	4.0	784	22	AAF90326	Human JAFFA cDNA.
26	83.8	3.9	624	22	AAO9152	Human fibroblast g
27	83.4	3.9	1190	22	AAO00779	Human Fibroblast G
28	81.8	3.8	630	22	AAF89921	Nucleotide sequenc
29	81.8	3.8	630	24	ABK52425	Human FGF-related
30	81.8	3.8	630	24	ABL91722	Human polynucleoti
31	81.8	3.8	643	22	AAF85329	Nucleotide sequenc
32	76	3.6	753	22	AAH28134	Decelerate sequenc
33	76	3.6	753	24	ABA91796	Human zFGF12 degen
34	72.6	3.4	465	24	ABL50579	Human OST311 polyn
35	72.6	3.4	684	24	ABL50578	Human OST311 polyn
36	72.6	3.4	690	24	ABL50654	Human OST311 DNA sequ
37	72.6	3.4	747	24	ABL50653	His-OST311 DNA seq
38	72.6	3.4	753	22	AAH76317	Human fibroblast g
39	72.6	3.4	756	22	AAO16366	Human sbjFGF-19b g
40	72.6	3.4	756	22	AAH75021	Nucleotide sequenc
41	72.6	3.4	756	22	AAH75033	Nucleotide sequenc
42	72.6	3.4	756	24	ABN81575	Human FGF23 protei
43	72.6	3.4	756	24	ABL91738	Human polynucleoti
44	72.6	3.4	996	22	AA521376	Human cDNA sequenc
45	72.6	3.4	996	22	AA544266	Human PRO9828 nucl

ALIGNMENTS

RESULT 1

AAV72455

ID AAV72455 standard; cDNA; 2137 BP.

XX AC AAV72455;

XX DT 05-AUG-1999 (first entry)

XX DE Human PRO533 cDNA.

XX KW PRO533; FGF-19; fibroblast growth factor; human; diagnosis; treatment;

XX KW tumour; neoplastic cell growth; cell proliferation; tumorogenesis; cancer;

XX KW autocrine signalling; ss.

XX OS Homo sapiens.

XX PN WO9527100-A1.

XX PD 03-JUN-1999.

XX PF 25-NOV-1998; 98WO-US25190.

XX PR 21-SEP-1998; 98US-0158432.

XX PR 25-NOV-1997; 97US-0066840.

XX (GETH ) GENENTECH INC.

PI Bolstein D, Goddard A, Gurney AL, Hillan KJ, Lawrence DA;

PI Roy MA;

XX WPI; 1999-347718/29.

DR P-PSDB; AAY08580.

xx Nucleic acid encoding fibroblast growth factor - 19, useful for the  
PT diagnosis, prevention and treatment of cancers  
xx  
xx  
PS Claim 4; Fig 2; 88pp; English.  
xx  
CC This invention describes a novel human fibroblast growth factor, PRO533,  
CC also known as fibroblast growth factor-19 (FGF-19). The nucleic acids,  
CC methods and PRO533 polypeptides disclosed may be used in the diagnosis  
CC and treatment of tumours and/or conditions characterized by modulation of  
CC PRO533 expression, or in the preparation of compositions for such  
CC therapies. These compositions and methods may be used in the diagnosis  
CC and treatment of neoplastic cell growth and proliferation in mammals  
CC (especially humans). The invention is based on the identification of  
CC genes that are amplified in the genome of tumour cells. Such gene  
CC amplification is expected to be associated with the over expression of  
CC the gene product and contribute to tumourgenesis and/or autocrine  
CC signalling. Accordingly, the proteins encoded by the amplified genes are  
CC believed to be useful targets for the diagnosis and/or treatment of  
CC certain cancers and may act as predictors of the prognosis for tumour  
CC treatments.  
xx  
SQ Sequence 2137 BP; 422 A; 648 C; 598 G; 469 T; 0 other;

Query Match 100.0%; Score 2137; DB 20; Length 2137;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCCAGCCAAAGAACCTCGGGCGCTGCGGGTGGGAGGAGTCCCGAAACCCGGC 60  
DB 1 GCTCCAGCCAAAGAACCTCGGGCGCTGCGGGTGGGAGGAGTCCCGAAACCCGGC 60  
QY 61 CGCTAAGCAGAGCCCTCTCTCCCGCAGATCCGAACCGCCTGGGCGGGGTCAACCCCGCT 120  
DB 61 CGCTAAGCAGAGCCCTCTCTCCCGCAGATCCGAACCGCCTGGGCGGGGTCAACCCCGCT 120  
QY 121 GGGACAGAGCCCGCCGCTGCTCCCGCCGGCCGGCGGGGAGGGCTGGGGCCGG 180  
DB 121 GGGACAGAGCCCGCCGCTGCTCCCGCCGGCCGGCGGGGAGGGCTGGGGCCGG 180  
QY 181 AGCGGGGTGTGAGTGGGTGTGTCGGGGGGCGGAGGCTTGATCAATCCGATAAGAAA 240  
DB 181 AGCGGGGTGTGAGTGGGTGTGTCGGGGGGCGGAGGCTTGATCAATCCGATAAGAAA 240  
QY 241 TGCTCGGGGTGTGTTGGGACCTACCCGTGGGCGCCGTAAGGCGCTACTATAGGCTGC 300  
DB 241 TGCTCGGGGTGTGTTGGGACCTACCCGTGGGCGCCGTAAGGCGCTACTATAGGCTGC 300  
QY 301 CGGCCCGAGCGCGCGCTCAGACAGAGGCGCTGCGTCCAGGATCTAGGGCCACGA 360  
DB 301 CGGCCCGAGCGCGCGCTCAGACAGAGGCGCTGCGTCCAGGATCTAGGGCCACGA 360  
QY 361 CCATCCCAACCCGGCACTCAGACCCCGCAGCGCATCCCGGTGCGCCCGCAGCTCCCGC 420  
DB 361 CCATCCCAACCCGGCACTCAGACCCCGCAGCGCATCCCGGTGCGCCCGCAGCTCCCGC 420  
QY 421 ACCCCCATCGCGAGCTGCGCCCGCAGAGCCCGAGGAGTGCATGCGGAGCGGGTGTGT 480  
DB 421 ACCCCCATCGCGAGCTGCGCCCGCAGAGCCCGAGGAGTGCATGCGGAGCGGGTGTGT 480  
QY 481 GGTGGTCCAGTATGATCTGCGCGGCTTGGCTGGCGGTGCGCCGGGCGCCCTCGC 540  
DB 481 GGTGGTCCAGTATGATCTGCGCGGCTTGGCTGGCGGTGCGCCGGGCGCCCTCGC 540  
QY 541 CTCTCGAGCGCGGGCGCCACGTGCACTACGGCTGGGGCGACCCCATCCGCTCGCGCA 600  
DB 541 CTCTCGAGCGCGGGCGCCACGTGCACTACGGCTGGGGCGACCCCATCCGCTCGCGCA 600  
QY 601 CCTGTACACCTCCGGCGCCCGCAGCGGCTCTCCAGTGTCTTCGTGGCATCTGCGCCAGG 660  
DB 601 CCTGTACACCTCCGGCGCCCGCAGCGGCTCTCCAGTGTCTTCGTGGCATCTGCGCCAGG 660  
QY 661 CGTGGTGGTGGCGGGGCCAGAGCGGCACAGTTTGTGGAGATCAAGGCACTGCGC 720

DB 661 CGTCGTGGACTGGCGCGGGGCCAGAGCGGCACAGTTTGTGGAGATCAAGGCACTGCG 720  
QY 721 TCTGCGGACCGTGGCCATCAAGGGCGTGCACAGCGTGGTACCTCTGCTGCGATGGCGCGCA 780  
DB 721 TCTGCGGACCGTGGCCATCAAGGGCGTGCACAGCGTGGTACCTCTGCTGCGATGGCGCGCA 780  
QY 781 CGGCAAGATGCAAGGGGTGCTTCCAGTACTCGGAGGAAGACTGTCTTTCAGGAGGAGAT 840  
DB 781 CGGCAAGATGCAAGGGGTGCTTCCAGTACTCGGAGGAAGACTGTCTTTCAGGAGGAGAT 840  
QY 841 CGGCCAGATGGGTACAAATGTGTACCGATCCGAGAGCACCGCTCCCGGTCTCCCTGAG 900  
DB 841 CGGCCAGATGGGTACAAATGTGTACCGATCCGAGAGCACCGCTCCCGGTCTCCCTGAG 900  
QY 901 CAGTGGCAAAACAGCGGCGCTGTACAAAGAACAGAGGCTTCTTCCACTCTCTCAATTCCT 960  
DB 901 CAGTGGCAAAACAGCGGCGCTGTACAAAGAACAGAGGCTTCTTCCACTCTCTCAATTCCT 960  
QY 961 GCCCATGCTGCCCATGGTCCCGAGAGGAGCTGAGGAGCTCAGGGGCGACTTGAATCTGA 1020  
DB 961 GCCCATGCTGCCCATGGTCCCGAGAGGAGCTGAGGAGCTCAGGGGCGACTTGAATCTGA 1020  
QY 1021 CATGTTCTTTCGCCCTGGAGACCGGACGATGGACCCATTTGGGCTTGTACCCGACT 1080  
DB 1021 CATGTTCTTTCGCCCTGGAGACCGGACGATGGACCCATTTGGGCTTGTACCCGACT 1080  
QY 1081 GGAGGCGCTGAGGAGTCCCGAGCTTGAAGAGTAACAGAGACCATGCCCGGCGCTTTCAC 1140  
DB 1081 GGAGGCGCTGAGGAGTCCCGAGCTTGAAGAGTAACAGAGACCATGCCCGGCGCTTTCAC 1140  
QY 1141 TGCTGCCAGGGGTGTGGTACCTGACGCTGGGGGAGCTGCTTACAAAGAACAGTCTG 1200  
DB 1141 TGCTGCCAGGGGTGTGGTACCTGACGCTGGGGGAGCTGCTTACAAAGAACAGTCTG 1200  
QY 1201 AGTCCAGCTTCTGTAGCTTTAGGAAGAACAATCTAGAAAGTTGTACATATTAGAGTTT 1260  
DB 1201 AGTCCAGCTTCTGTAGCTTTAGGAAGAACAATCTAGAAAGTTGTACATATTAGAGTTT 1260  
QY 1261 TCCATTGGCAGTGCAGTTTCTAGCCAAATAGACTTGTCTGATCAATAACATTTGAAGCTG 1320  
DB 1261 TCCATTGGCAGTGCAGTTTCTAGCCAAATAGACTTGTCTGATCAATAACATTTGAAGCTG 1320  
QY 1321 TAGCTTCCCGAGCTGCTGCTGGCGCCCAATCTGCTCCCTCGAGGTGCTGGACAGCT 1380  
DB 1321 TAGCTTCCCGAGCTGCTGCTGGCGCCCAATCTGCTCCCTCGAGGTGCTGGACAGCT 1380  
QY 1381 GCTGCACTGCTCAGTTCTGCTTGAATACCTCCATCGATGGGAACCTACTTCTCTTGA 1440  
DB 1381 GCTGCACTGCTCAGTTCTGCTTGAATACCTCCATCGATGGGAACCTACTTCTCTTGA 1440  
QY 1441 AAAATTCTTATGCAAGCTGAAATTTCTAATTTTCTCATCACTTCCCGAGGACAGC 1500  
DB 1441 AAAATTCTTATGCAAGCTGAAATTTCTAATTTTCTCATCACTTCCCGAGGACAGC 1500  
QY 1501 CAGAAGACAGGCACTAGTTTAAATTTTCAGAACAGGTGATCCACTCTGTAAAACAGCAGG 1560  
DB 1501 CAGAAGACAGGCACTAGTTTAAATTTTCAGAACAGGTGATCCACTCTGTAAAACAGCAGG 1560  
QY 1561 TAAATTTCACTCAACCCCATGTGGGAATTCATCTATATCTCTTCCAGGACCATTTT 1620  
DB 1561 TAAATTTCACTCAACCCCATGTGGGAATTCATCTATATCTCTACTTCCAGGACCATTTT 1620  
QY 1621 CCCTTCCCAAAATCCCTCCAGGCCAGAACTGACTGGAGCAGGATGGCCCAACAGGCTTCA 1680  
DB 1621 CCCTTCCCAAAATCCCTCCAGGCCAGAACTGACTGGAGCAGGATGGCCCAACAGGCTTCA 1680  
QY 1681 GGAGTAGGGGAAGCTGGAGCCCACTCCAGCCCTGGGACAACTTGAGAAATTCCTCTGA 1740  
DB 1681 GGAGTAGGGGAAGCTGGAGCCCACTCCAGCCCTGGGACAACTTGAGAAATTCCTCTGA 1740  
QY 1741 GGCCAGTTCTGTCATGGATGCTGCTCTGAGAATAAAGTTGCTGCCGGTGTCACTGCTT 1800

Db 1741 GGCAGTTCTGTGATGATGCTGCTCTCTGAGATAAATCTGCTGTCGCCGGTTCACCTGCCT 1800  
QY 1801 CCATCTCCAGCCACAGCCCTCTGCCCCACCTCACATGCTCCCCATGATGGGGCCT 1860  
Db 1801 CCATCTCCAGCCACAGCCCTCTGCCCCACCTCACATGCTCCCCATGATGGGGCCT 1860  
QY 1861 CCCAGCCCCCACCCTTATGTCAACCTGCACCTCTCTGTTCAAAAATCAGAAAGAAAG 1920  
Db 1861 CCCAGCCCCCACCCTTATGTCAACCTGCACCTCTCTGTTCAAAAATCAGAAAGAAAG 1920  
QY 1921 ATTTGAAGACCCCAAGTCTTGTCATTAACCTGCTGTGTGGAACGCGGGGAAGACCTA 1980  
Db 1921 ATTTGAAGACCCCAAGTCTTGTCATTAACCTGCTGTGTGGAACGCGGGGAAGACCTA 1980  
QY 1981 GAACCCCTTCCCCAGCAGCTTGGTTTTCCCAACATGATATTTATGAGTAATTTATTTTCATA 2040  
Db 1981 GAACCCCTTCCCCAGCAGCTTGGTTTTCCCAACATGATATTTATGAGTAATTTATTTTCATA 2040  
QY 2041 TGTACATCTCTTATTTTCTTACATTTATTTATGCCCCCAATTTATTTATGATGTAAGT 2100  
Db 2041 TGTACATCTCTTATTTTCTTACATTTATTTATGCCCCCAATTTATTTATGATGTAAGT 2100  
QY 2101 GAGCTTGTGTTCTATATTAATAAGTGGAGTTGTTTGT 2137  
Db 2101 GAGCTTGTGTTCTATATTAATAAGTGGAGTTGTTTGT 2137  
RESULT 2  
AAC58599  
ID AAC58599 standard; cDNA: 2137 BP.  
XX AAC58599;  
AC  
DT  
XX 29-JAN-2001 (first entry)  
DE Human PRO533 protein UNQ334 encoding cDNA SEQ ID NO:111.  
XX  
KW Human: immune related disease; diagnosis; antiinflammatory; cardiant;  
KW dermatological; antiarthritic; antirheumatic; immunosuppressive;  
KW haemostatic; antithyroid; antidiabetic; nootropic; neuroprotective;  
KW antianemic; hepatotropic; virucide; antipsoriatic; antiallergic;  
KW antiasthmatic; systemic lupus erythematosus; rheumatoid arthritis;  
KW osteoarthritis; spondyloarthropathy; systemic sclerosis; sarcoidosis;  
KW idiopathic inflammatory myopathy; Sjogren's syndrome; thyroiditis;  
KW systemic vasculitis; autoimmune haemolytic anaemia; diabetes mellitus;  
KW autoimmune thrombocytopaenia; immune-mediated renal disease;  
KW demyelinating disease; hepatobiliary disease; Whipple's disease;  
KW inflammatory bowel disease; gluten-sensitive enteropathy;  
KW autoimmune disease; immune-mediated skin disease; allergic disease;  
KW immunological disease; transplantation associated disease;  
KW graft rejection; graft-versus-host-disease: ss.  
XX  
OS Homo sapiens.  
XX  
PN WO200053758-A2.  
XX  
PD 14-SEP-2000.  
XX  
PF 02-MAR-2000; 2000WO-US05841.  
XX  
PR 08-MAR-1999; 99WO-US05028.  
PR 10-MAR-1999; 99US-0123618.  
PR 12-MAR-1999; 99US-0123957.  
PR 23-MAR-1999; 99US-0125775.  
PR 12-APR-1999; 99US-0128849.  
PR 20-APR-1999; 99WO-US08615.  
PR 28-APR-1999; 99US-0131445.  
PR 04-MAY-1999; 99US-0132371.  
PR 14-MAY-1999; 99US-0134287.  
PR 02-JUN-1999; 99WO-US12252.  
PR 23-JUN-1999; 99US-0141037.  
PR 20-JUL-1999; 99US-0144758.  
PR 26-JUL-1999; 99US-0145698.

PR 28-JUL-1999; 99US-0146222.  
PR 01-SEP-1999; 99WO-US20111.  
PR 08-SEP-1999; 99WO-US20594.  
PR 13-SEP-1999; 99WO-US20944.  
PR 15-SEP-1999; 99WO-US21090.  
PR 15-SEP-1999; 99WO-US21547.  
PR 05-OCT-1999; 99WO-US23089.  
PR 29-OCT-1999; 99US-0162506.  
PR 29-NOV-1999; 99WO-US28214.  
PR 30-NOV-1999; 99WO-US28313.  
PR 30-NOV-1999; 99WO-US28409.  
PR 01-DEC-1999; 99WO-US28301.  
PR 01-DEC-1999; 99WO-US28634.  
PR 02-DEC-1999; 99WO-US28551.  
PR 02-DEC-1999; 99WO-US28564.  
PR 02-DEC-1999; 99WO-US28565.  
PR 16-DEC-1999; 99WO-US30095.  
PR 20-DEC-1999; 99WO-US30999.  
PR 30-DEC-1999; 99WO-US31274.  
PR 05-JAN-2000; 2000WO-US00219.  
PR 06-JAN-2000; 2000WO-US00277.  
PR 11-FEB-2000; 2000WO-US00376.  
PR 18-FEB-2000; 2000WO-US03565.  
PR 18-FEB-2000; 2000WO-US04341.  
PR 22-FEB-2000; 2000WO-US04342.  
PR 22-FEB-2000; 2000WO-US04414.  
XX  
PA (GETH ) GENENTECH INC.  
XX  
PI Ashkenazi AJ, Baker KP, Goddard A, Gurney AL, Hebert C, Henzel W;  
PI Kabakoff RC, Lu Y, Pan J, Pennica D, Shelton DL, Smith V;  
PI Stewart TA, Tumas D, Watanabe CK, Wood WI, Yan M;  
DR WPI: 2000-572271/53.  
DR P-PSDB; AAB33434.  
XX  
PT Sixty four PRO polypeptides, useful in the diagnosis and treatment of  
PT immune related disorders, e.g. systemic lupus erythematosus, rheumatoid  
PT arthritis, osteoarthritis, thyroiditis and diabetes mellitus -  
XX  
PS Claim 23: Fig 41: 309pp; English.  
XX  
CC The present invention describes sixty four human PRO proteins which can  
CC be used in the treatment of immune related diseases. The human PRO  
CC proteins, anti-PRO antibodies, agonists and antagonists are useful for  
CC treating and diagnosing immune related disorders. The disorders are  
CC selected from systemic lupus erythematosus, rheumatoid arthritis,  
CC osteoarthritis, juvenile chronic arthritis, spondyloarthropathies,  
CC systemic sclerosis, idiopathic inflammatory myopathies, Sjogren's  
CC syndrome, systemic vasculitis, sarcoidosis, autoimmune haemolytic  
CC anaemia, autoimmune thrombocytopaenia, thyroiditis, diabetes mellitus,  
CC immune-mediated renal disease, demyelinating diseases of the central  
CC and peripheral nervous systems, hepatobiliary diseases, inflammatory  
CC bowel disease, gluten-sensitive enteropathy and Whipple's disease,  
CC autoimmune or immune-mediated skin diseases, allergic diseases,  
CC immunological diseases of the lung, and transplantation associated  
CC diseases including graft rejection and graft-versus-host-disease.  
CC AAC58397 to AAC58578 represent PCR primers and hybridisation probes used  
CC in the isolation of human PRO sequences. AAC58579 to AAC58642 and  
CC AAB33414 to AAB33477 represent human PRO polynucleotide and protein  
CC sequences given in the exemplification of the present invention.  
XX  
SQ Sequence 2137 BP; 422 A; 648 C; 598 G; 459 T; 0 other;  
Query Match 100.0%; Score 2137; DB 21; Length 2137;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2137; Conservative 0; Mismatches 0; Indels 0; Caps 0;  
QY 1 GCTCCAGCAAGAACCTCGGGCCCGCTCGCGGTGGGAGGAGTTCCCGCAAAACCGGC 60  
Db 1 GCTCCAGCAAGAACCTCGGGCCCGCTCGCGGTGGGAGGAGTTCCCGCAAAACCGGC 60  
QY 61 CGCTAAGCGAGGCCTCTCTCTCCCGCAGATCCGACGGCTGGGGGGGTCACTCCGGCT 120

```
Db 61 CGCTAAGGAGGCTCTCTCCCGCAGATCCGAAACGGCTTGGCGGGGTACACCCGGCT 120
Qy 121 GGGACAAGACCCGCGCTGCTGCCCGCGGCGAGGGGCTGGGCGCGG 180
Db 121 GGGACAAGACCCGCGCTGCTGCCCGCGGCGAGGGGCTGGGCGCGG 180
Qy 181 AGGCGGGGTGAGTGGGTGTGCGGGGGCGGAGGCTTGATCAATCCCGATAAGAAA 240
Db 181 AGGCGGGGTGAGTGGGTGTGCGGGGGCGGAGGCTTGATCAATCCCGATAAGAAA 240
Qy 241 TGCTCGGGTGTCTTGGGCACCTACCCGTGGGCGCGCTAAGCGCTACTATATAAGGCTGC 300
Db 241 TGCTCGGGTGTCTTGGGCACCTACCCGTGGGCGCGCTAAGCGCTACTATATAAGGCTGC 300
Qy 301 CGGCGCGGAGCGCGCGCGCTCAGAGCAGGAGCGCTGCGTCCAGGATCTAGGGCCACGA 360
Db 301 CGGCGCGGAGCGCGCGCGCTCAGAGCAGGAGCGCTGCGTCCAGGATCTAGGGCCACGA 360
Qy 361 CCATCCCAACCGGACTCAGAGCCCGCAGCGCATCCCGTGCGCCGCCAGCGCTCCCGC 420
Db 361 CCATCCCAACCGGACTCAGAGCCCGCAGCGCATCCCGTGCGCCGCCAGCGCTCCCGC 420
Qy 421 ACCCCCATCGCGAGCTGCGCCGAGAGCCCCAGGAGGTGCCATGCGGACCGGTGTGT 480
Db 421 ACCCCCATCGCGAGCTGCGCCGAGAGCCCCAGGAGGTGCCATGCGGACCGGTGTGT 480
Qy 481 GGTGCTCACATATGGATCTCTGGCGGCGCTCTGGCTGCGCGCTGCGCGCGCGCGCTGC 540
Db 481 GGTGCTCACATATGGATCTCTGGCGGCGCTCTGGCTGCGCGCTGCGCGCGCGCGCTGC 540
Qy 541 CTTCTCGGACCGGGGCCACGTGCACTACGGCTGGGGGACCCCCATTCGCGCTCGCGCA 600
Db 541 CTTCTCGGACCGGGGCCACGTGCACTACGGCTGGGGGACCCCCATTCGCGCTCGCGCA 600
Qy 601 CCTGTACACCTCGCGCGCGCGCTCCAGCTGCTCTCGTGGCATCCGTGCGCGCAGG 660
Db 601 CCTGTACACCTCGCGCGCGCGCTCCAGCTGCTCTCGTGGCATCCGTGCGCGCAGG 660
Qy 661 CGTGTGGACTGCGCGGGGCCAGCGCACAGTTTGTGGAGATCAAGGCACTGCGC 720
Db 661 CGTGTGGACTGCGCGGGGCCAGCGCACAGTTTGTGGAGATCAAGGCACTGCGC 720
Qy 721 TCTGCGACCGTGGCCATCAAGGCGCTGCACAGCGTGGGTACCTTGCATGGCGCGCA 780
Db 721 TCTGCGACCGTGGCCATCAAGGCGCTGCACAGCGTGGGTACCTTGCATGGCGCGCA 780
Qy 781 CGGCAAGATGAGGGGCTGCTTCACTACGAGGAAAGCTGTGCTTTCAGAGGAGAT 840
Db 781 CGGCAAGATGAGGGGCTGCTTCACTACGAGGAAAGCTGTGCTTTCAGAGGAGAT 840
Qy 841 CGGCCCCAGATGGCTACAAATGTGTACCGATCCGAGAAGCACCGCTCCCGTCTCCCTGAG 900
Db 841 CGGCCCCAGATGGCTACAAATGTGTACCGATCCGAGAAGCACCGCTCCCGTCTCCCTGAG 900
Qy 901 CAGTGCCAAACAGCGGAGCTGTACAGACAGAGGCTTCTTCCACTCTCTCATTTCCCT 960
Db 901 CAGTGCCAAACAGCGGAGCTGTACAGACAGAGGCTTCTTCCACTCTCTCATTTCCCT 960
Qy 961 GCCCATGCTGCCATGTGTCCAGAGGAGCTGTAGGAGCTCAGGGGCCACTTGGAAATCTGA 1020
Db 961 GCCCATGCTGCCATGTGTCCAGAGGAGCTGTAGGAGCTCAGGGGCCACTTGGAAATCTGA 1020
Qy 1021 CATGTTCTCTTCGCCCTTGGAGACCGAGCATGAGCCCAATTTGGGCTGTGTACCGGACT 1080
Db 1021 CATGTTCTCTTCGCCCTTGGAGACCGAGCATGAGCCCAATTTGGGCTGTGTACCGGACT 1080
Qy 1081 GGAGGCGGTGAGGAGTCCCGAGCTTTGAGAAGTAAGTACTGAGACCATGCGCGGCGCTCTTCAC 1140
Db 1081 GGAGGCGGTGAGGAGTCCCGAGCTTTGAGAAGTAAGTACTGAGACCATGCGCGGCGCTCTTCAC 1140
Qy 1141 TGCTGCCAGGGGCTGTGTTACCTCAGCGTGGGGGAGTGCTTCTACAAGAACAGTCTCTG 1200
```

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Db 1141 TGCTGCCAGGGGCTGTGTTACCTGCGACCGTGGGGGAGCGTCTCTACAAGAACAGTCTCTG 1200
Qy 1201 AGTCCAGGTTCTCTGTTTACGCTTTAGGAAGAAACATCTAGAAGTTGTACATATTCAGAGTTT 1260
Db 1201 AGTCCAGGTTCTGTTTACGCTTTAGGAAGAAACATCTAGAAGTTGTACATATTCAGAGTTT 1260
Qy 1261 TCCATTGGCAGTGGCAGTTTCTAGCCCAATAGACTTGTCTGATCAATAACATTGTAAAGCCTG 1320
Db 1261 TCCATTGGCAGTGGCAGTTTCTAGCCCAATAGACTTGTCTGATCAATAACATTGTAAAGCCTG 1320
Qy 1321 TAGCTTCCCGAGCTGCTGCTGGGCCCCCAATCTGCTCCCTCGAGGTTGCTGGACAAGCT 1380
Db 1321 TAGCTTCCCGAGCTGCTGCTGGGCCCCCAATCTGCTCCCTCGAGGTTGCTGGACAAGCT 1380
Qy 1381 GCTGCACCTGTCTCAGTTCTGCTTGAATACCTCCATCGATGGGAACTCAGTCTCTTTTGA 1440
Db 1381 GCTGCACCTGTCTCAGTTCTGCTTGAATACCTCCATCGATGGGAACTCAGTCTCTTTTGA 1440
Qy 1441 AAAATTCTTATGTCAAGCTGAAATTCCTAATTTTTTCTCATCTCTCCCGAGGAGCAGC 1500
Db 1441 AAAATTCTTATGTCAAGCTGAAATTCCTAATTTTTTCTCATCTCTCCCGAGGAGCAGC 1500
Qy 1501 CAGAAGACAGCGAGTAGTTTAAATTTTCAGGAACAGGTGATCCACTCTGTAACACAGCAGG 1560
Db 1501 CAGAAGACAGCGAGTAGTTTAAATTTTCAGGAACAGGTGATCCACTCTGTAACACAGCAGG 1560
Qy 1561 TAAATTTTCACTCAACCCCATGTGGAAATGATCTATATCTCTACTTCCAGGACCATTTG 1620
Db 1561 TAAATTTTCACTCAACCCCATGTGGAAATGATCTATATCTCTACTTCCAGGACCATTTG 1620
Qy 1621 CCCTTCCCAATCCCTCCAGGCCAGAACTGACTGGAGCAGCATGGCCCCACAGGCTTCA 1680
Db 1621 CCCTTCCCAATCCCTCCAGGCCAGAACTGACTGGAGCAGCATGGCCCCACAGGCTTCA 1680
Qy 1681 GGAGTAGGGGAAGCGTGGAGCCCACTCCAGCCCTGGGAACTTGAGAATTCGCCCTGA 1740
Db 1681 GGAGTAGGGGAAGCGTGGAGCCCACTCCAGCCCTGGGAACTTGAGAATTCGCCCTGA 1740
Qy 1741 GGGCAGTTCTCATGGATGCTGCTCGAGAATAACTTGTGTGCCGGTGTCACTGCTT 1800
Db 1741 GGGCAGTTCTCATGGATGCTGCTCGAGAATAACTTGTGTGCCGGTGTCACTGCTT 1800
Qy 1801 CCATCTCCAGCCAGCCAGCCCTCTGCCACCTCACATGCTCCCATGGATTGGGGCCT 1860
Db 1801 CCATCTCCAGCCAGCCAGCCCTCTGCCACCTCACATGCTCCCATGGATTGGGGCCT 1860
Qy 1861 CCCAGGCCCCCAGCTTATGTCAACCTGCACTTCTTCTTCAAAAATCAGGAAAGAAAG 1920
Db 1861 CCCAGGCCCCCAGCTTATGTCAACCTGCACTTCTTCTTCAAAAATCAGGAAAGAAAG 1920
Qy 1921 ATTTGAAGACCCCAAGTCTTTGTCAAATTAACCTTGTGTGGAGCAGCGGGGAGACCTA 1980
Db 1921 ATTTGAAGACCCCAAGTCTTTGTCAAATTAACCTTGTGTGGAGCAGCGGGGAGACCTA 1980
Qy 1981 GAACCCCTTCCCGAGCATTGGTTTCCACATGATATTTATGAGTAATTTATTTGATA 2040
Db 1981 GAACCCCTTCCCGAGCATTGGTTTCCACATGATATTTATGAGTAATTTATTTGATA 2040
Qy 2041 TGTACATCTCTTATTTTCTTACATATTTATGCCCCAAATTTATTTATGATGTAAGT 2100
Db 2041 TGTACATCTCTTATTTTCTTACATATTTATGCCCCAAATTTATTTATGATGTAAGT 2100
Qy 2101 GAGGTTGTTTTGTATATAATAAATGGAGTTGTTTGT 2137
Db 2101 GAGGTTGTTTTGTATATAATAAATGGAGTTGTTTGT 2137
```

RESULT 3  
AAA30028  
ID AAA30028 standard; cDNA; 2137 BP.  
XX  
AC  
AC  
XX  
AAA30028;

DT 09-AUG-2000 (first entry)  
XX Human PRO533 nucleotide sequence.  
XX  
KW Antibody; PRO187; PRO533; PRO214; PRO240; PRO211; PRO230; PRO261; PRO246;  
KW PRO317; tumour growth inhibitor; cancer; diagnosis; treatment; Human;  
KW cell growth; proliferation; fibroblast growth factor; ADEPT;  
KW antibody dependent enzyme mediated prodrug therapy; ss.  
XX  
OS Homo sapiens.  
XX  
XX WO200015666-A2.  
XX 23-MAR-2000.  
XX  
XX 08-SEP-1999; 99WO-US20594.  
XX  
XX 10-SEP-1998; 98US-0099803.  
XX 10-SEP-1998; 98WO-US18824.  
XX (GETH ) GENENTECH INC.  
XX  
XX Goddard A, Gurney AL, Hillan KJ, Roy MA, Wood WJ, Botstein D;  
XX  
XX WPI; 2000-271386/23.  
XX P-PSDB; AAY88568.  
XX  
XX New isolated antibodies which bind to specific polypeptides used for  
XX diagnosis and treatment of neoplastic cell growth and proliferation -  
XX  
XX Example 2; Fig 3; 200pp; English.  
XX  
XX This sequence represents a human PRO533 nucleotide sequence. PRO533  
XX shares sequence homology with the fibroblast growth factor. The  
XX invention relates to isolated antibodies which bind to a polypeptide.  
XX The "PRO" polypeptides are encoded by genes which are over expressed in  
XX the genome of tumour cells. Vectors and host cells comprising the nucleic  
XX acid encoding the antibodies are used in the production of the  
XX antibodies. The antibodies and nucleic acids encoding them are used for  
XX diagnosing a tumour in a mammal. The antibodies are used for inhibiting  
XX the growth of tumour cells and identifying compounds that inhibit a  
XX biological or immunological activity of and/or expression of a PRO187,  
XX PRO333, PRO214, PRO211, PRO230, PRO261, PRO246 or PRO317  
XX polypeptide. The antibody can be used in antibody dependent enzyme  
XX mediated prodrug therapy (ADEPT) by conjugating the antibody to a  
XX prodrug-activating enzyme which converts a prodrug to an anti-cancer  
XX drug. The antibodies can be fluorescently labelled and monitored by light  
XX microscopy, flow cytometry or fluorimetry for diagnosis and prognosis of  
XX tumours.  
XX  
XX Sequence 2137 BP; 422 A; 648 C; 598 G; 469 T; 0 other;  
XX  
XX Query Match 100.0%; Score 2137; DB 21; Length 2137;  
XX Best Local Similarity 100.0%; Pred. No. 0;  
XX Matches 2137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
XX  
QY 1 GCTCCAGCAAGAACCTCGGGCGCGCTGCGGGTGGGAGGAGTTCCCGCAAAACCCGGC 60  
DB 1 GCTCCAGCAAGAACCTCGGGCGCGCTGCGGGTGGGAGGAGTTCCCGCAAAACCCGGC 60  
XX  
QY 61 CGCTAAGCAGCGCTCTCTCTCCCGAGATCCGACGGGCTGGGGGGGTACACCCCGCT 120  
DB 61 CGCTAAGCAGCGCTCTCTCTCCCGAGATCCGACGGGCTGGGGGGGTACACCCCGCT 120  
XX  
QY 121 GGGACAAGAGCCGCGCTGCTGCGCGGCGCGGGAGGGGCTGGGGCTGGGGCGCG 180  
DB 121 GGGACAAGAGCCGCGCTGCTGCGCGGCGCGGGAGGGGCTGGGGCTGGGGCGCG 180  
XX  
QY 181 AGCGGGGTGTGAGTGGGTGTGTGGGGGGGGCGGAGGCTTGATGCAATCCCATAGAAA 240  
DB 181 AGCGGGGTGTGAGTGGGTGTGTGGGGGGGGCGGAGGCTTGATGCAATCCCATAGAAA 240  
XX  
QY 241 TGCTCGGGTGTCTTGGGCACCTACCGTGGGGCCCGTAAAGCGCTACTATATAAGGCTGC 300

DB 241 TGCTCGGGTGTCTTGGGCACCTACCGTGGGGCCCGCTAAAGCGCTACTATATAAGCGCTGC 300  
QY 301 CGGCGCGGAGCGCGCGCGCTCAGAGCAGGAGCGCTGCGTCAGAGATCTAGCGA 360  
DB 301 CGGCGCGGAGCGCGCGCGCGCTCAGAGCAGGAGCGCTGCGTCAGAGATCTAGCGA 360  
QY 361 CCATCCCAACCCGGGCACTCACAGCCCGGAGGCGATCCCGCGTCCGCGCCAGCTCCCGC 420  
DB 361 CCATCCCAACCCGGGCACTCACAGCCCGGAGGCGATCCCGCGTCCGCGCCAGCTCCCGC 420  
QY 421 ACCCCCATCGCGGAGCTGCGCGGAGAGCCCGAGGAGGTGCGCATCGGAGGAGGTGTGT 480  
DB 421 ACCCCCATCGCGGAGCTGCGCGGAGAGCCCGAGGAGGTGCGCATCGGAGGAGGTGTGT 480  
QY 481 GGTGTGCCAGCTATGATCCTGGCGCGCTCTGGCTGGCGGTGGCGCGCGCGCTCCG 540  
DB 481 GGTGTGCCAGCTATGATCCTGGCGCGCTCTGGCTGGCGGTGGCGCGCGCGCTCCG 540  
QY 541 CTTCGCGAGCGGGGCGCGCAGCTACGGCTGGGGTGGGGTGGGGTGGGGTGGGGTGG 600  
DB 541 CTTCGCGAGCGGGGCGCGCAGCTACGGCTGGGGTGGGGTGGGGTGGGGTGGGGTGG 600  
QY 601 CCGTACACTCCGGCGCGCGCGCTCTCCAGCTGCTTCTGCGCATCCGTGCGAGCG 660  
DB 601 CCGTACACTCCGGCGCGCGCGCTCTCCAGCTGCTTCTGCGCATCCGTGCGAGCG 660  
QY 661 CGTGTGGGACTCGCGCGCGCGCGCAGAGCGCGCACAGTTCCTGGAGATCAAGCGAGTCC 720  
DB 661 CGTGTGGGACTCGCGCGCGCGCGCAGAGCGCGCACAGTTCCTGGAGATCAAGCGAGTCC 720  
QY 721 TCTGCGGAGCGGTGGCGCATCAAGGGCTGCACAGCGTGGCGTACCTGCAATGGAGCGCG 780  
DB 721 TCTGCGGAGCGGTGGCGCATCAAGGGCTGCACAGCGTGGCGTACCTGCAATGGAGCGCG 780  
QY 781 CGGCAAGATGCAAGGGCTGCTTCACTGCTGCGGAGGAGAGCTGTGCTTTCGAGGAGGAGAT 840  
DB 781 CGGCAAGATGCAAGGGCTGCTTCACTGCTGCGGAGGAGAGCTGTGCTTTCGAGGAGGAGAT 840  
QY 841 CGCGCCAGATGCTACAATGTGTACCGATCCGAGAGGACCGCGCTCCCGCTTCCGTGAG 900  
DB 841 CGCGCCAGATGCTACAATGTGTACCGATCCGAGAGGACCGCGCTCCCGCTTCCGTGAG 900  
QY 901 CAGTCCCAACAGCGCGAGCTGTACAAGAACAGAGGCTTCTTCCACTCTCTCAATTCCT 960  
DB 901 CAGTCCCAACAGCGCGAGCTGTACAAGAACAGAGGCTTCTTCCACTCTCTCAATTCCT 960  
QY 961 GCGCATGCTGCCATGCTGCCAGAGGAGCTGAGGACCTCAGGGGCGACTTGGATCTGA 1020  
DB 961 GCGCATGCTGCCATGCTGCCAGAGGAGCTGAGGACCTCAGGGGCGACTTGGATCTGA 1020  
QY 1021 CATGTTCTCTTCGCGCGCTGGAGACCGACAGCATGGACCCATTTGGGCTTGTTCACCGGACT 1080  
DB 1021 CATGTTCTCTTCGCGCGCTGGAGACCGACAGCATGGACCCATTTGGGCTTGTTCACCGGACT 1080  
QY 1081 GGAGCGCGGTGAGGAGTCCAGCTTTTGAAGTAAGTAACTGAGACCATGCCCGGCGCTCTTCAC 1140  
DB 1081 GGAGCGCGGTGAGGAGTCCAGCTTTTGAAGTAAGTAACTGAGACCATGCCCGGCGCTCTTCAC 1140  
QY 1141 TGCTGCCAGGGGCTGTGGTACCTGCGAGCGTGGGGGAGCTGCTTCTACAGAGACAGTTCCTG 1200  
DB 1141 TGCTGCCAGGGGCTGTGGTACCTGCGAGCGTGGGGGAGCTGCTTCTACAGAGACAGTTCCTG 1200  
QY 1201 AGTCCACGTTCTGTTTGTAGCTTTAGGAAGAACATCTAGAAAGTTGTACATATTCAGAGTTT 1260  
DB 1201 AGTCCACGTTCTGTTTGTAGCTTTAGGAAGAACATCTAGAAAGTTGTACATATTCAGAGTTT 1260  
QY 1261 TCCATTGGCAGTCCAGTTTCTAGGCAATAGACTTGTCTGTATCATATAAATTTGTAAGCTG 1320  
DB 1261 TCCATTGGCAGTCCAGTTTCTAGGCAATAGACTTGTCTGTATCATATAAATTTGTAAGCTG 1320  
QY 1321 TAGCTTGGCCAGCTGCTGCTGGGGCCCGCAATTCCTGCTCCCTCGAGGTGCTGGAGAGCT 1380  
DB 1321 TAGCTTGGCCAGCTGCTGCTGGGGCCCGCAATTCCTGCTCCCTCGAGGTGCTGGAGAGCT 1380

Db 1321 TAGCTTGGCCAGCTGCTGCTTGGGCCCCCAATCTGCTCCCTCGAGGTGCTGGACAAGCT 1380  
Qy 1381 GCTCACTGTCTCAGTTCTGCTTGAATACCTCCATCGATGGGAACACACTCTCTTTGGA 1440  
Db 1381 GCTCACTGTCTCAGTTCTGCTTGAATACCTCCATCGATGGGAACACTCTCTTTGGA 1440  
Qy 1441 AAAATTTTATGTCAAGCTGAAATTCCTAATTTTCTCATCACTTCCCGAGGAGCAGC 1500  
Db 1441 AAAATTTTATGTCAAGCTGAAATTCCTAATTTTCTCATCACTTCCCGAGGAGCAGC 1500  
Qy 1501 CAGAAGACGCGCTAGTTTAAATTTTCAGNACAGGTGATCCACTCTGTAAACAGCAGG 1560  
Db 1501 CAGAAGACGCGCTAGTTTAAATTTTCAGNACAGGTGATCCACTCTGTAAACAGCAGG 1560  
Qy 1561 TAAATTTCACTCAACCCCATGTGGGAATGATCTATATCTCTACTTCCAGGACCATTTG 1620  
Db 1561 TAAATTTCACTCAACCCCATGTGGGAATGATCTATATCTCTACTTCCAGGACCATTTG 1620  
Qy 1621 CCCTTCCCAATCCCTCCAGGCCAGAACTGACTGGAGCAGCATGGCCACAGGCTTCA 1680  
Db 1621 CCCTTCCCAATCCCTCCAGGCCAGAACTGACTGGAGCAGCATGGCCACAGGCTTCA 1680  
Qy 1681 GGAGTAGGGAAGCTGAGGCCACCTCCAGCCCTCGGACAACTTGAGAAATCCCCCTGA 1740  
Db 1681 GGAGTAGGGAAGCTGAGGCCACCTCCAGCCCTCGGACAACTTGAGAAATCCCCCTGA 1740  
Qy 1741 GGCAGTTCTGTCAATGATGCTGCTGAGAAATTAACCTTGTGCTCCCGGTGTACCTGCTT 1800  
Db 1741 GGCAGTTCTGTCAATGATGCTGCTGAGAAATTAACCTTGTGCTCCCGGTGTACCTGCTT 1800  
Qy 1801 CCATCTCCAGCCACAGCCCTCTGCCACCTACATGCTCCCATGATGATGGGSCCT 1860  
Db 1801 CCATCTCCAGCCACAGCCCTCTGCCACCTACATGCTCCCATGATGATGGGSCCT 1860  
Qy 1861 CCCAGGCCCCCACTTATGTCACCTGCACTTCTTCTTCAAAATCAGGAAGAAAG 1920  
Db 1861 CCCAGGCCCCCACTTATGTCACCTGCACTTCTTCTTCAAAATCAGGAAGAAAG 1920  
Qy 1921 ATTTGAAGACCCCAAGCTTGTCAATAACTTGTCTGTGGAAGCAGCGGGGAAGACCTA 1980  
Db 1921 ATTTGAAGACCCCAAGCTTGTCAATAACTTGTCTGTGGAAGCAGCGGGGAAGACCTA 1980  
Qy 1981 GAACCCCTTCCCGAGCAGCTGGTTTTTCCACATGATATTTATGATAGTAAATTTTGGATA 2040  
Db 1981 GAACCCCTTCCCGAGCAGCTGGTTTTTCCACATGATATTTATGATAGTAAATTTTGGATA 2040  
Qy 2041 TGTACATCTCTTATTTCTTACATTTATTTATGCCCCCAATATATTTATCTATGTAAGT 2100  
Db 2041 TGTACATCTCTTATTTCTTACATTTATTTATGCCCCCAATATATTTATCTATGTAAGT 2100  
Qy 2101 GAGTTTGTGTTTGPATATTAATAATGGAGTTTGTGTTGT 2137  
Db 2101 GAGTTTGTGTTTGPATATTAATAATGGAGTTTGTGTTGT 2137

RESULT 4  
AAF58498  
ID AAF58498 standard; cDNA; 2137 BP.

XX AC AAF58498;

XX 27-APR-2001 (first entry)

XX PRO533 coding sequence.

XX Cytostatic; PRO protein; tumour; cancer; ss.

XX Homo sapiens.

XX W0200105836-A1.

XX 25-JAN-2001.

XX

PF 20-DEC-1999; 99WO-US30999.  
XX  
XX 20-JUL-1999; 99US-0144758.  
PR 26-JUL-1999; 99US-0145698.  
PR 08-SEP-1999; 99WO-US20594.  
PR 13-SEP-1999; 99WO-US20944.  
PR 15-SEP-1999; 99WO-US21090.  
PR 05-OCT-1999; 99WO-US23089.  
PR 29-NOV-1999; 99WO-US28214.  
PR 30-NOV-1999; 99WO-US28313.  
PR 02-DEC-1999; 99WO-US28564.  
XX  
XX (GETH ) GENENTECH INC.  
XX  
PI Botstein D, Goddard A, Gurney AL, Hillan KJ, Roy MA, Wood WI;  
XX WPI: 2001-091968/10.  
XX P-PSDB; AAB68593.  
DR  
XX  
PT New antibody that binds to a PRO polypeptide, e.g. PRO187 and PRO533,  
PT useful for diagnosing and treating cancers -  
XX  
PS Claim 50; Fig 3; 196pp; English.  
XX  
CC The present invention relates to PRO proteins and coding sequences. The  
CC present sequence is the coding sequence for one such PRO protein.  
CC It was found that the PRO genes are amplified in the genome of tumour  
CC cells. The gene amplification is expected to be associated with the  
CC overexpression of the gene product and contributes to tumourigenesis.  
CC Therefore, antagonists of PRO proteins are useful for the treatment of  
CC benign or malignant tumours, leukaemias, lymphoid malignancies and other  
CC disorders such as neuronal, glial, astrocytal, hypothalamic, glandular,  
CC epithelial, inflammatory and immunologic disorders.  
XX  
SQ Sequence 2137 BP; 422 A; 648 C; 598 G; 469 T; 0 other;

Query Match 100.0%; Score 2137; DB 22; Length 2137;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCTCCAGCAAGCAACTCGGGCCGCTGCGCGTGGGAGGAGTTCCCGCAACCCGCG 60  
Db 1 GCTCCAGCAAGCAACTCGGGCCGCTGCGCGTGGGAGGAGTTCCCGCAACCCGCG 60  
Qy 61 CGCTAAGCAGGCTCTCTCTCCCGAGATCCGAAGCGCTGGGCGGGGTACCCCGGCT 120  
Db 61 CGCTAAGCAGGCTCTCTCTCCCGAGATCCGAAGCGCTGGGCGGGGTACCCCGGCT 120  
Qy 121 GGGACAAGAGCCGCGCTGCTGCGCGGCGCGGGAGGGGCTGGGCGTGGGCGCG 180  
Db 121 GGGACAAGAGCCGCGCTGCTGCGCGGCGCGGGAGGGGCTGGGCGTGGGCGCG 180  
Qy 181 AGCGGGGTGTGAGTGGGTGTGTCGGGGGCGGAGGCTTGATGCAATCCGATAAGAAA 240  
Db 181 AGCGGGGTGTGAGTGGGTGTGTCGGGGGCGGAGGCTTGATGCAATCCGATAAGAAA 240  
Qy 241 TGCTCGGGGTCTTGGGCACCTACCGGTGGGGCCCGCTAAGCGCTACTATATAGGCTGC 300  
Db 241 TGCTCGGGGTCTTGGGCACCTACCGGTGGGGCCCGCTAAGCGCTACTATATAGGCTGC 300  
Qy 301 CGGCGGGAGCCGCGCGCTCAGACGAGCGCTGCCGTCCAGGATCTAGGGCCACGA 360  
Db 301 CGGCGGGAGCCGCGCGCTCAGACGAGCGCTGCCGTCCAGGATCTAGGGCCACGA 360  
Qy 361 CCATCCCAACCCCGGCACTACAGCCCGCGAGCGATCCCGGTCCCGCCAGCTCCCGC 420  
Db 361 CCATCCCAACCCCGGCACTACAGCCCGCGAGCGATCCCGGTCCCGCCAGCTCCCGC 420  
Qy 421 ACCCCATCCCGGAGCTGCGCCGAGAGCCCGGAGGAGTGCCATGCGGAGCGGGTGTGT 480  
Db 421 ACCCCATCCCGGAGCTGCGCCGAGAGCCCGGAGGAGTGCCATGCGGAGCGGGTGTGT 480  
Qy 481 GGTGTCACGATGATGATCTGCGCGGCTCTGGCTGGCGGCGCGCCCTCGC 540







|||||  
Db 121 GGGACAAAGAGCCGCCCTGCCCTGCCCGGGCCGGGAGGGGCTGGGCTGGGGCCGG 180  
QY 181 AGGCGGGGTGTAGTGGGTGTGTCGGGGGGCGGAGGCTTGATCAATCCGATAAAGAA 240  
Db 181 AGGCGGGGTGTAGTGGGTGTGTCGGGGGGCGGAGGCTTGATCAATCCGATAAAGAA 240  
QY 241 TGCTCGGGTGTCTTTGGACACTACCCGTGGGGCCCGTAAGGCGCTACTATATAAGGCTGC 300  
Db 241 TGCTCGGGTGTCTTTGGACACTACCCGTGGGGCCCGTAAGGCGCTACTATATAAGGCTGC 300  
QY 301 CGGGCCGAGCGCCGCGCTCAGACAGAGAGGCGTGGCTCAGGATCTAGGGCCACGA 360  
Db 301 CGGGCCGAGCGCCGCGCTCAGACAGAGAGGCGTGGCTCAGGATCTAGGGCCACGA 360  
QY 361 CCATCCCAACCCGGCACTCAGCGCCCGCAGCGCATCCCGTGGCGCCCGCAGCGCTCCCGC 420  
Db 361 CCATCCCAACCCGGCACTCAGCGCCCGCAGCGCATCCCGTGGCGCCCGCAGCGCTCCCGC 420  
QY 421 ACCCCCATCGCGGAGCTGCGCGGAGAGCGCCAGGAGGTGCCATGCGGAGCGGGTGTGT 480  
Db 421 ACCCCCATCGCGGAGCTGCGCGGAGAGCGCCAGGAGGTGCCATGCGGAGCGGGTGTGT 480  
QY 481 GGTGGTCCAGCTATGGATCTGGCGCGGCTTGCTGGCTGGCGGTGCCCGGGCGCCCTCGC 540  
Db 481 GGTGGTCCAGCTATGGATCTGGCGCGGCTTGCTGGCTGGCGGTGCCCGGGCGCCCTCGC 540  
QY 541 CTTCTCGAGCGGGGCGCCACGTGCACTACGGCTGGGGCGACCCCATCCGCTCGCGCA 600  
Db 541 CTTCTCGAGCGGGGCGCCACGTGCACTACGGCTGGGGCGACCCCATCCGCTCGCGCA 600  
QY 601 CCTGTACACCTCGCGGCGCCACGGGCTCTCCAGTGTCTTCCGCGCATCCGTCGCGACGG 660  
Db 601 CCTGTACACCTCGCGGCGCCACGGGCTCTCCAGTGTCTTCCGCGCATCCGTCGCGACGG 660  
QY 661 CGTGTGAGCTGCGCGGGGCCAGCGCGCACAGTTTCTGGAGATCAAGGCGATGTCG 720  
Db 661 CGTGTGAGCTGCGCGGGGCCAGCGCGCACAGTTTCTGGAGATCAAGGCGATGTCG 720  
QY 721 TCTGCGGACCTGCGCCATCAAGGCGGTGCACAGGCTGCGGTACCTCTGCATGGCGCGCA 780  
Db 721 TCTGCGGACCTGCGCCATCAAGGCGGTGCACAGGCTGCGGTACCTCTGCATGGCGCGCA 780  
QY 781 CGGCAAGATCGAGGGGTGCTTCAGTACTCGGAGGAAGTGTGCTTTCAGAGAGAGAT 840  
Db 781 CGGCAAGATCGAGGGGTGCTTCAGTACTCGGAGGAAGTGTGCTTTCAGAGAGAGAT 840  
QY 841 CCGCCAGATGGCTACAAATGTGTACCGATCCGAGAAGCACCGCTCCGGTCTCCCTGAG 900  
Db 841 CCGCCAGATGGCTACAAATGTGTACCGATCCGAGAAGCACCGCTCCGGTCTCCCTGAG 900  
QY 901 CAGTGCACAAACAGCGGAGCTGTACAAAGAACAGAGGCTTTCTTCCACTCTCTCATTTCC 960  
Db 901 CAGTGCACAAACAGCGGAGCTGTACAAAGAACAGAGGCTTTCTTCCACTCTCTCATTTCC 960  
QY 961 GCCCATGCTGCCATGTGCCAGGAGGCTGAGGACCTCAGGGCCACCTTGAATCTGA 1020  
Db 961 GCCCATGCTGCCATGTGCCAGGAGGCTGAGGACCTCAGGGCCACCTTGAATCTGA 1020  
QY 1021 CATGTTCTCTTCGCGCTGGAGACCGGACAGCATGGACCCATTTGGGCTTGTACCGGACT 1080  
Db 1021 CATGTTCTCTTCGCGCTGGAGACCGGACAGCATGGACCCATTTGGGCTTGTACCGGACT 1080  
QY 1081 GGAGGCGGTGAGGAGTCCCAGCTTTGAGAAGTAAGTCTGAGACCATGCCCCGGGCTCTTTCAC 1140  
Db 1081 GGAGGCGGTGAGGAGTCCCAGCTTTGAGAAGTAAGTCTGAGACCATGCCCCGGGCTCTTTCAC 1140  
QY 1141 TGCTGCCAGGGGTGTGGTACCTGCAGCGTGGGGGAGCTGCTTCTACAAAGACAGTCTGT 1200  
Db 1141 TGCTGCCAGGGGTGTGGTACCTGCAGCGTGGGGGAGCTGCTTCTACAAAGACAGTCTGT 1200  
QY 1201 AGTCCAGCTTCTGTAGCTTTAGGAAGAACATCTAGAAGTGTACATATTCAGAGTTT 1260  
|||||

Db 1201 AGTCCAGGTTCTGTGTAGCTTTAGGAAGAACATCTAGAAGTTGTACATATTCAGAGTTT 1260  
QY 1261 TCCATTGGCAGTGCAGTTTCTAGCCCAATAGACTTTGTCTGATCATAACATTGTAAGCTG 1320  
Db 1261 TCCATTGGCAGTGCAGTTTCTAGCCCAATAGACTTTGTCTGATCATAACATTGTAAGCTG 1320  
QY 1321 TAGCTTGGCCAGCTGTGCTGGCCCCCAATCTGTCTCCCTCGAGGTTGCTGGACAAGCT 1380  
Db 1321 TAGCTTGGCCAGCTGTGCTGGCCCCCAATCTGTCTCCCTCGAGGTTGCTGGACAAGCT 1380  
QY 1381 GCTGCACTGTCTCAGTTCTGTTGAATACCTCCATCGATGGGAACATCACTTCTTTTGA 1440  
Db 1381 GCTGCACTGTCTCAGTTCTGTTGAATACCTCCATCGATGGGAACATCACTTCTTTTGA 1440  
QY 1441 AAAATTTCTATGTCAAGCTGAAATTTCTAAATTTTCTCATCACTTCCCGCAGGACGAGC 1500  
Db 1441 AAAATTTCTATGTCAAGCTGAAATTTCTAAATTTTCTCATCACTTCCCGCAGGACGAGC 1500  
QY 1501 CAGAAGACAGGCTAGTTTAAATTTTCAGGAACAGGTGATCCACTCTGTAAAACAGCAGG 1560  
Db 1501 CAGAAGACAGGCTAGTTTAAATTTTCAGGAACAGGTGATCCACTCTGTAAAACAGCAGG 1560  
QY 1561 TAAATTTCACTCAAGCCCATGTGGGAATTCATCTATATCTCTACTTCCAGGGACCATTTG 1620  
Db 1561 TAAATTTCACTCAAGCCCATGTGGGAATTCATCTATATCTCTACTTCCAGGGACCATTTG 1620  
QY 1621 CCCTTCCCAATCCCTCCAGGCCAGAACTGACTGGAGCAGGCATGGCCACAGGCTTCA 1680  
Db 1621 CCCTTCCCAATCCCTCCAGGCCAGAACTGACTGGAGCAGGCATGGCCACAGGCTTCA 1680  
QY 1681 GGAGTAGGGGAAGCTGGAGCCCACTCCAGCCCTGGGACAACCTTGAGAATTTCCCCCTGA 1740  
Db 1681 GGAGTAGGGGAAGCTGGAGCCCACTCCAGCCCTGGGACAACCTTGAGAATTTCCCCCTGA 1740  
QY 1741 GGCAGTTCTGTCATGGATGCTGCTCGAGAATAACTTGTCTCCCGGTGTCACCTGCTT 1800  
Db 1741 GGCAGTTCTGTCATGGATGCTGCTCGAGAATAACTTGTCTCCCGGTGTCACCTGCTT 1800  
QY 1801 CCATCTCCCAAGCCACAGCCCTCTGCCACCTCACATGCTCCCATGATTTGGGCGCT 1860  
Db 1801 CCATCTCCCAAGCCACAGCCCTCTGCCACCTCACATGCTCCCATGATTTGGGCGCT 1860  
QY 1861 CCAGGCCCCCAGCTTATGTCACCTGCACTTCTTGTTCAAAATCAGGAAAGAAAG 1920  
Db 1861 CCAGGCCCCCAGCTTATGTCACCTGCACTTCTTGTTCAAAATCAGGAAAGAAAG 1920  
QY 1921 ATTTGAAGACCCCAAGTCTTGTCAATAACTTGTCTGGAAGCAGCGGGGGAAGACCTA 1980  
Db 1921 ATTTGAAGACCCCAAGTCTTGTCAATAACTTGTCTGGAAGCAGCGGGGGAAGACCTA 1980  
QY 1981 GAACCCCTTCCCGAGCAGCTGGTTTTCCAAACATGATATTTATGAGTAATTTATTTGATA 2040  
Db 1981 GAACCCCTTCCCGAGCAGCTGGTTTTCCAAACATGATATTTATGAGTAATTTATTTGATA 2040  
QY 2041 TGTACATCTCTTATTTCTTACATATTTATGCCCAATATATTTATGATGTAAGT 2100  
Db 2041 TGTACATCTCTTATTTCTTACATATTTATGCCCAATATATTTATGATGTAAGT 2100  
QY 2101 GAGTTTGTGTTTGTATATTAATAATGGAGTTGTTTGT 2137  
Db 2101 GAGTTTGTGTTTGTATATTAATAATGGAGTTGTTTGT 2137  
RESULT 7  
ABL95599  
ID ABL95599 standard; cDNA; 2137 BP.  
XX  
AC ABL95599;  
XX  
DT 19-JUL-2002 (first entry)  
XX  
DE Human angiogenesis related cDNA PR0533 SEQ ID NO: 77.  
XX

Human; angiogenesis; PRO protein; cardiovascularisation: wound; cancer;  
atherosclerosis; cardiac hypertrophy; gene therapy; endothelial disorder;  
cardiant; cytostatic; antiangiogenic; hypotensive; vulnery;  
antiarteriosclerotic; gene; ss.  
Homo sapiens.

DR P-PSDB; AB95461.  
XX One hundred and eighty seven nucleic acids encoding PRO polypeptides,  
PT useful in diagnosis and treatment of cardiovascular (e.g. myocardial  
infarction), endothelial or angiogenic disorders in a mammal -  
XX  
PS Claim 1; Fig 77; 567pp; English.  
XX  
CC The present invention provides the protein and coding sequences of human  
CC PRO proteins. These are useful for treating or diagnosing a  
CC cardiovascular, endothelial or angiogenic disorder, including cardiac  
CC hypertrophy, trauma, cancer, age-related macular degeneration,  
CC atherosclerosis, hypertension, arterial restenosis, rheumatoid arthritis,  
CC angina, myocardial infarctions, thrombophlebitis, lymphangitis, tumour  
CC angiogenesis (such as breast carcinoma and liver carcinoma) and wound  
XX healing. The present sequence is a coding sequence of the invention.  
SQ Sequence 2137 BP; 422 A; 648 C; 598 G; 469 T; 0 other;

Query Match 100.0%; Score 2137; DB 24; Length 2137;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 1 GCTCCAGCAAGAACCTCGGGCCCTGCGCGTGGGAGGAGTTCCCCCAACCCGGC 60  
DB 1 GCTCCAGCAAGAACCTCGGGCCCTGCGCGTGGGAGGAGTTCCCCCAACCCGGC 60  
OY 61 CGCTAAGCGAGGCTCTCTCTCCCGCAGATCCGAAGCGCTGGCGGGTACCCCGCT 120  
DB 61 CGCTAAGCGAGGCTCTCTCTCCCGCAGATCCGAAGCGCTGGCGGGTACCCCGCT 120  
OY 121 GGCACAAGAGCCCGCCCTGCTGCGCGGCCCGGGAGGGGCTGGGGCTGGGGCGG 180  
DB 121 GGCACAAGAGCCCGCCCTGCTGCGCGGCCCGGGAGGGGCTGGGGCTGGGGCGG 180  
OY 181 AGCGGGGTGTGAGTGGGTGTGCGGGGGCGGAGGCTTTGATGCAATCCGTAAGAAA 240  
DB 181 AGCGGGGTGTGAGTGGGTGTGCGGGGGCGGAGGCTTTGATGCAATCCGTAAGAAA 240  
OY 241 TGCTCGGTGCTTTGGGCACCTACCGCTGGGGCCGTAAGCGCTACTATATAGGCTGC 300  
DB 241 TGCTCGGTGCTTTGGGCACCTACCGCTGGGGCCGTAAGCGCTACTATATAGGCTGC 300  
OY 301 CGGCCGGAGCCCGCGCGCTCAGAGCAGAGCGCTGGCTCCAGGATCTTAGGCCACGA 360  
DB 301 CGGCCGGAGCCCGCGCGCTCAGAGCAGAGCGCTGGCTCCAGGATCTTAGGCCACGA 360  
OY 361 CCATCCCAACCCGGCACTACAGCCCGCGAGCGCATCCCGTCCGCCGCCAGCTCCCGC 420  
DB 361 CCATCCCAACCCGGCACTACAGCCCGCGAGCGCATCCCGTCCGCCGCCAGCTCCCGC 420  
OY 421 ACCCCATCGCGAGCTCGCGCGAGAGCCCGAGGAGGTGCCATGCGGAGCGGTGTGT 480  
DB 421 ACCCCATCGCGAGCTCGCGCGAGAGCCCGAGGAGGTGCCATGCGGAGCGGTGTGT 480  
OY 481 GGTGTCCACGATATGGATCTTGGCGGCCCTCTGGCTGGCGTGGCGGGGGTTCCTCGC 540  
DB 481 GGTGTCCACGATATGGATCTTGGCGGCCCTCTGGCTGGCGTGGCGGGGGTTCCTCGC 540  
OY 541 CTTCTCGGAGCGGGGCCCGCCACGTACGGCTGGGGGAGCCCATCCGCTCGGGCA 600  
DB 541 CTTCTCGGAGCGGGGCCCGCCACGTACGGCTGGGGGAGCCCATCCGCTCGGGCA 600  
OY 601 CTTGTACACTCGCGGCCCGCCACGGGCTCTCCAGCTCTTCTCCGCGATCGTCCGACGG 660  
DB 601 CTTGTACACTCGCGGCCCGCCACGGGCTCTCCAGCTCTTCTCCGCGATCGTCCGCGACGG 660  
OY 661 CTTGTGTGACTGCGCGGGGGCGAGAGCGGACAGTTCCTGGAGATCAAGGAGTTCGC 720  
DB 661 CTTGTGTGACTGCGCGGGGGCGAGAGCGGACAGTTCCTGGAGATCAAGGAGTTCGC 720  
OY 721 TCTGCGGACCGTGGGCGCATCAAGGGCGTGCACAGCGTGGGCTACCTCTGATGCGGCCGA 780  
DB 721 TCTGCGGACCGTGGGCGCATCAAGGGCGTGCACAGCGTGGGCTACCTCTGATGCGGCCGA 780

KW Human; angiogenesis; PRO protein; cardiovascularisation: wound; cancer;  
KW atherosclerosis; cardiac hypertrophy; gene therapy; endothelial disorder;  
KW cardiant; cytostatic; antiangiogenic; hypotensive; vulnery;  
XX antiarteriosclerotic; gene; ss.  
OS Homo sapiens.  
XX  
XX WO200208284-A2.  
XX  
XX 31-JAN-2002.  
XX  
XX 09-JUL-2001; 2001WO-US21735.  
XX  
XX 20-JUL-2000; 2000US-219556P.  
XX 25-JUL-2000; 2000US-220624P.  
XX 25-JUL-2000; 2000US-220664P.  
XX 28-JUL-2000; 2000WO-US20710.  
XX 02-AUG-2000; 2000US-222695P.  
XX 17-AUG-2000; 2000US-0643657.  
XX 23-AUG-2000; 2000WO-US23522.  
XX 24-AUG-2000; 2000WO-US23328.  
XX 07-SEP-2000; 2000US-230978P.  
XX 15-SEP-2000; 2000US-000000P.  
XX 18-SEP-2000; 2000US-0664610.  
XX 18-SEP-2000; 2000US-0665350.  
XX 24-OCT-2000; 2000US-242922P.  
XX 08-NOV-2000; 2000US-0709238.  
XX 08-NOV-2000; 2000WO-US30952.  
XX 10-NOV-2000; 2000WO-US30873.  
XX 01-DEC-2000; 2000WO-US32678.  
XX 20-DEC-2000; 2000US-0747259.  
XX 20-DEC-2000; 2000WO-US34956.  
XX 22-JAN-2001; 2001US-0767609.  
XX 28-FEB-2001; 2001US-0796498.  
XX 28-FEB-2001; 2001WO-US06520.  
XX 01-MAR-2001; 2001WO-US06666.  
XX 09-MAR-2001; 2001US-0802706.  
XX 14-MAR-2001; 2001US-0808689.  
XX 22-MAR-2001; 2001US-0816744.  
XX 05-APR-2001; 2001US-0828366.  
XX 10-MAY-2001; 2001US-0854208.  
XX 10-MAY-2001; 2001US-0854280.  
XX 25-MAY-2001; 2001US-0866028.  
XX 25-MAY-2001; 2001US-0866034.  
XX 25-MAY-2001; 2001WO-US17092.  
XX 30-MAY-2001; 2001US-0870574.  
XX 30-MAY-2001; 2001WO-US17443.  
XX 01-JUN-2001; 2001WO-US17800.  
XX 20-JUN-2001; 2001WO-US19692.  
XX 28-JUN-2001; 2001WO-US00000.  
XX  
XX (GETH ) GENENTECH INC.  
XX (BAKE/) BAKER K P.  
XX (FERR/) FERRARA N.  
XX (GERR/) GERBER H.  
XX (GERR/) GERRITSEN M E.  
XX (GODD/) GODDARD A.  
XX (GODO/) GODOWSKI P J.  
XX (GURN/) GURNEY A L.  
XX (HILL/) HILLAN K J.  
XX (MARS/) MARSTERS S A.  
XX (PANJ/) PAN J.  
XX (PAON/) PAONI N F.  
XX (STEP/) STEPHAN J F.  
XX (WATA/) WATANABE C K.  
XX (WILL/) WILLIAMS P M.  
XX (WOOD/) WOOD W I.  
XX  
XX Baker KP, Ferrara N, Gerber H, Gerritsen ME, Goddard A;  
PI Godowski PJ, Gurney AL, Hillan KJ, Marsters SA, Pan J, Paoni NF;  
PI Stephan JF, Watanabe CK, Williams PM, Wood WI, Ye W;  
XX WPI; 2002-171999/22.

Db 721 TCTGCGGACCGTGGCCATCAAGGGCGTGCACAGCGTGGGTACTCTCTGCAATGGCGCCGA 780  
Qy 781 CGGCAAGATGACGGGGTGTCTTTCAGTACTCGGAGGAAGACTGTCTTTCAGGAGGAGAT 840  
Db 781 CGGCAAGATGACGGGGTGTCTTTCAGTACTCGGAGGAAGACTGTCTTTCAGGAGGAGAT 840  
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Db 841 CGGCCCAGATGGCTACAAATGTGTACCGATCCGAGAACACCGGCTCCCGGTCTCCCTGAG 900  
Qy 901 CAGTGCACAAACAGCGGAGCTGTACAGAACAGAGGCTTCTTCCCACTCTCTCATTTCCCT 960  
Db 901 CAGTGCACAAACAGCGGAGCTGTACAGAACAGAGGCTTCTTCCCACTCTCTCATTTCCCT 960  
Qy 961 GCCCATGCTGCCATGCTCCACAGAGGAGCTGTAGGAGCTCAGGGGCGACCTTGAATCTGA 1020  
Db 961 GCCCATGCTGCCATGCTCCACAGAGGAGCTGTAGGAGCTCAGGGGCGACCTTGAATCTGA 1020  
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Db 1021 CATGTTCTCTTCCGCGCTGGAGACCGACAGATGGAGCCCATTTGGGCTTGTCAACCGGACT 1080  
Qy 1081 GGAGGCGTGCAGAGTCCCAAGCTTTGAGAAGTAACCTGAGACCATGCGCGGCGCTCTTCAC 1140  
Db 1081 GGAGGCGTGCAGAGTCCCAAGCTTTGAGAAGTAACCTGAGACCATGCGCGGCGCTCTTCAC 1140  
Qy 1141 TGTGTCAGGGGCTGTGTACCTGCAGCGTGGGGAGCTGCTTCTACAAGAACAGCTCTG 1200  
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Db 1201 AGTCCAGGTTCTGTGTAGCTTTAGGAAGAACATCTAGAAGTTGTACATAATTCAGAGTTT 1260  
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Db 1561 TAAATTTCACTCAACCCCATGTGGGAATTCATATATCTCTACTTCCAGGGACCATTTG 1620  
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Db 1681 GGAGTAGGGGAAGCCTGGAGCCCACTCCAGCCCTGGGACAACCTTGAGAAATTCCTCCCTGA 1740  
Qy 1741 GGCCAGTTCTGTATGATGCTGTCTTGAGAACTTGTGTCCTCCCGGTGTCACTGCTT 1800  
Db 1741 GGCCAGTTCTGTATGATGCTGTCTTGAGAACTTGTGTCCTCCCGGTGTCACTGCTT 1800  
Qy 1801 CCATCTCCCAAGCCCAACAGCCCTCTGCCCACTCACATGCTCCCAATGATTGGGCGCT 1860  
Db 1801 CCATCTCCCAAGCCCAACAGCCCTCTGCCCACTCACATGCTCCCAATGATTGGGCGCT 1860

RESULT 8

ABL88110

ID ABL88110 standard; cDNA; 2137 BP.

XX ABL88110;

AC AC

DT 16-MAY-2002 (first entry)

XX Human PR0533 cDNA sequence SEQ ID NO:77.

DE Human;

XX Human;

KW Human; angio genesis; cardiac; cytostatic; antiangiogenic; hypotensive;

KW vulnerary; antiarteriosclerotic; PRO agonist; PRO antagonist; trauma;

KW gene therapy; cardiovascular disorder; endothelial disorder; cancer;

KW angioenic disorder; cardiac hypertrophy; atherosclerosis; hypertension;

KW age-related macular degeneration; arterial restenosis; angina;

KW rheumatoid arthritis; myocardial infarction; thrombophlebitis;

KW lymphangitis; tumour angiogenesis; breast carcinoma; liver carcinoma;

KW wound healing; chromosome mapping; gene mapping; gene; ss.

XX Homo sapiens.

OS Homo sapiens.

XX WO200200690-A2.

PN 03-JAN-2002.

XX 20-JUN-2001; 2001WO-US19692.

XX 23-JUN-2000; 2000US-213637P.

PR 20-JUL-2000; 2000US-219556P.

PR 25-JUL-2000; 2000US-220624P.

PR 25-JUL-2000; 2000US-220664P.

PR 28-JUL-2000; 2000WO-US20710.

PR 02-AUG-2000; 2000US-222695P.

PR 17-AUG-2000; 2000US-0643657.

PR 23-AUG-2000; 2000WO-US23322.

PR 24-AUG-2000; 2000WO-US23328.

PR 07-SEP-2000; 2000US-230978P.

PR 18-SEP-2000; 2000US-0664610.

PR 18-SEP-2000; 2000US-0665350.

PR 24-OCT-2000; 2000US-242922P.

PR 08-NOV-2000; 2000US-0709238.

PR 08-NOV-2000; 2000WO-US30952.

PR 10-NOV-2000; 2000WO-US30873.

PR 01-DEC-2000; 2000WO-US32678.

PR 20-DEC-2000; 2000US-074259.

PR 20-DEC-2000; 2000WO-US34956.

PR 22-JAN-2001; 2001US-076498.

PR 28-FEB-2001; 2001US-0796498.

PR 28-FEB-2001; 2001WO-US06520.

PR 01-MAR-2001; 2001WO-US06666.

PR 09-MAR-2001; 2001US-0802706.

PR 14-MAR-2001; 2001US-0808689.  
PR 22-MAR-2001; 2001US-0816744.  
PR 05-APR-2001; 2001US-0828366.  
PR 10-MAY-2001; 2001US-0854208.  
PR 10-MAY-2001; 2001US-0854280.  
PR 25-MAY-2001; 2001US-0866028.  
PR 25-MAY-2001; 2001US-0866034.  
PR 25-MAY-2001; 2001US-0817092.  
PR 30-MAY-2001; 2001US-0870574.  
PR 30-MAY-2001; 2001US-0870574.  
PR 01-JUN-2001; 2001US-0871780.  
XX (GETH ) GENENTECH INC.  
PA Baker KP, Ferrara N, Gerber H, Gerritsen ME, Goddard A;  
XX Godowski PJ, Gurney AL, Hillan KJ, Marsters SA, Pan J, Paoni NF;  
PI Stephan JF, Watanabe CK, Williams PM, Wood WJ, Ye W;  
XX  
DR WPI: 2002-090516/12.  
DR P-PSDB: ABB84855.  
XX  
XX One hundred and eighty seven nucleic acids encoding PRO polypeptides,  
PT useful in diagnosis and treatment of cardiovascular (e.g. myocardial  
PT infarction), endothelial or angiogenic disorders in a mammal -  
XX  
XX Claim 2; Fig 77; 565pp; English.  
XX  
CC ABL88072 to ABL88258 encode the PRO proteins given in ABB84817 to  
CC ABB85003. The PRO proteins and polynucleotides have cardiant, cytostatic,  
CC antiangiogenic, hypotensive, vulnerary and antiarteriosclerotic  
CC activities, and can be used in gene therapy. The PRO polynucleotides,  
CC proteins, agonists and antagonists are useful for treating or diagnosing  
CC a cardiovascular, endothelial or angiogenic disorder in a mammal,  
CC e.g. cardiac hypertrophy, trauma, cancer, age-related macular  
CC degeneration, atherosclerosis, hypertension, arterial restenosis,  
CC rheumatoid arthritis, angina, myocardial infarctions, thrombophlebitis,  
CC lymphangitis, tumour angiogenesis (such as breast carcinoma and liver  
CC carcinoma) and wound healing. The PRO polynucleotides have applications  
CC in molecular biology, including use as hybridisation probes, and in  
CC chromosome and gene mapping. ABL88259 to ABL88267 represent primers and  
CC probes used in the exemplification of the present invention.  
XX  
XX Sequence 2137 BP; 422 A; 648 C; 598 G; 469 T; 0 other;  
SQ

Query Match 100.0%; Score 2137; DB 24; Length 2137;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCCAGCAAGACCTCGGGCGCGCTCGCGGTGGGAGGAGTTCCCGCAACCCCGC 60  
DB 1 GCTCCAGCAAGACCTCGGGGCGCGCTCGCGGTGGGAGGAGTTCCCGCAACCCCGC 60

QY 61 CGCTAAGCGAGGCTCTCTCCCTCCGCGAGATCCGACGGCTCGGGGGGTACCCCGGCT 120  
DB 61 CGCTAAGCGAGGCTCTCTCTCCGCGAGATCCGACGGCTCGGGGGGTACCCCGGCT 120

QY 121 GGGACAAGAGCGCGCGCTGCTGCCCGGGCCCGGGAGGGGGCTGGGGCTGGGGCCGG 180  
DB 121 GGGACAAGAGCGCGCGCTGCTGCCCGGGCCCGGGAGGGGGCTGGGGCTGGGGCCGG 180

QY 181 AGCGGGGTGTGAGTGGGTGTGTGGGGGGGGGGGGGGGGGGTGTGATGCAATCCCGAAGAA 240  
DB 181 AGCGGGGGTGTGAGTGGGTGTGTGGGGGGGGGGGGGGGGGGTGTGATGCAATCCCGAAGAA 240

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DB 241 TGCTCGGGTGTCTGGGCACTTACCGTGGGGCGCGTAAAGCGCTACTATATAGGCTGC 300

QY 301 CGGGCCGAGCGCGCGCGCTCAGACGAGGAGCGCTGCGTCAGGATCTAGGGCCACCA 360  
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QY 361 CCATCCCAACCGGCACCTCACAGCCCGCGAGCGCATCCCGGTGCGCGCCAGCCCTCCCGC 420

DB 361 CCATCCCAACCGGCACCTCACAGCCCGCGAGCGCATCCCGGTGCGCGCCAGCGCTCCGC 420  
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DB 421 ACCCCCATCGCGGAGCTCGCGCGGAGAGCCCGAGGAGGTGCATCGGAGCGGTGTGT 480  
QY 481 GGTGGTCCACGTATGGATCTTGGCGGCGCTTGGCTGGCGGTGGCGGGCGGCGCTCGC 540  
DB 481 GGTGGTCCACGTATGGATCTTGGCGGCGCTTGGCTGGCGGTGGCGGGCGGCGCTCGC 540  
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DB 601 CTTGTACACCTCGGGCGCCCGCGGCTCTCAGCTCTTCTCGCGCATCGCTCGGCGG 660  
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DB 721 TCTGGGACCGTGGCGCATCAAGGGCTGCACAGCGTGGCGGTACCTCTGCATGGGCGCGA 780  
QY 781 CGGCAAGATGCAGGGCTCTTCTAGTACTCGGAGGAAGACTGTGCTTTCGAGGAGGAGAT 840  
DB 781 CGGCAAGATGCAGGGCTCTTCTAGTACTCGGAGGAAGACTGTGCTTTCGAGGAGGAGAT 840  
QY 841 CGGCGCAGATGGCTACAATGTGTACCGATCCGAGAGACACCGCTCCCGGTCTTCTCTGAG 900  
DB 841 CGGCGCAGATGGCTACAATGTGTACCGATCCGAGAGACACCGCTCCCGGTCTTCTCTGAG 900  
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DB 901 CAGTGGCAACAGCGCGACCTGTACAAGAACAGAGAGCTTCTTCCACTCTCTCATTTCT 960  
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DB 1321 TAGCTTGGCCAGCTGCTGCTGGGCGCCCATTTCTGCTCCCTCGAGGTTGCTGGACAAAGCT 1380  
QY 1381 GCTGCACTGCTCAGTTCTGTTGAATACCTCCATCGATGGGAACTCACTTCTCTTTGGA 1440  
DB 1381 GCTGCACTGCTCAGTTCTGTTGAATACCTCCATCGATGGGAACTCACTTCTCTTTGGA 1440  
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DB 1441 AAAAAATCTATGTCAAGCTGAAATTTCTCTAAATTTTTTTTCTCACTTCTCCCGAGGACGC 1500

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Db 1441 AAAATTCTTATGTCAGAGCTGAATTCCTCTAATTTTTTCTCATCATTCCCCAGGAGCAGC 1500
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Db 1501 CAGAAGACAGGACAGTATGTTTAAATTTTTCAGGAACAGGTGATCCACTCTGTAAACAGCAGG 1560
QY 1561 TAAATTTCACTCAACCCCATGTTGGGAATTCATCTATATCTCTACTTCCAGGGACCATTTG 1620
Db 1561 TAAATTTCACTCAACCCCATGTTGGGAATTCATCTATATCTCTACTTCCAGGGACCATTTG 1620
QY 1621 CCCTTCCCAATCCCTCAGGCGAGAACTGACTGAGCAGCATGCGCCACAGGCTTCA 1680
Db 1621 CCCTTCCCAATCCCTCAGGCGAGAACTGACTGAGCAGCATGCGCCACAGGCTTCA 1680
QY 1681 GGAGTAGGGAAGCTGAGCGCCACATCCAGCCCTCGGACAACTTGAGAAATTCGCCCTGA 1740
Db 1681 GGAGTAGGGAAGCTGAGCGCCACATCCAGCCCTCGGACAACTTGAGAAATTCGCCCTGA 1740
QY 1741 GGCCAGTTCTGTCATGATGCTGTCCTGAGAACTAATTTGTCGCCGGTGTCACTGCTT 1800
Db 1741 GGCCAGTTCTGTCATGATGCTGTCCTGAGAACTAATTTGTCGCCGGTGTCACTGCTT 1800
QY 1801 CCATCTCCAGCCACAGCCCTCTGCCACCTCACATGCTCCCATGATTGGGCGCT 1860
Db 1801 CCATCTCCAGCCACAGCCCTCTGCCACCTCACATGCTCCCATGATTGGGCGCT 1860
QY 1861 CCCAGGCCCCACCTTATGTCACCTGCACTTCTTCTTCAAAATCAGGAAAGAAAG 1920
Db 1861 CCCAGGCCCCACCTTATGTCACCTGCACTTCTTCTTCAAAATCAGGAAAGAAAG 1920
QY 1921 ATTTGAAGACCCCAAGTCTTGTCAATTAATTTGTCGTTGGAAGCAGCGGGGAGACCTA 1980
Db 1921 ATTTGAAGACCCCAAGTCTTGTCAATTAATTTGTCGTTGGAAGCAGCGGGGAGACCTA 1980
QY 1981 GAACCCCTTCCCGAGCACTGGTTTCCCAACATGATATTTATGATGATTAATTTTTCATA 2040
Db 1981 GAACCCCTTCCCGAGCACTGGTTTCCCAACATGATATTTATGATGATTAATTTTTCATA 2040
QY 2041 TGTACATCTCTATTTCTTACATATTTATGCCCCCAATATATATATATGATGTAAGT 2100
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QY 2101 GAGGTTTGTGTTGATATTAATAATGGAGTTGTTTGT 2137
Db 2101 GAGGTTTGTGTTGATATTAATAATGGAGTTGTTTGT 2137

RESULT 9
ABAS2883
ID ABA92883 standard; cDNA; 2137 BP.
XX AC ABA92883;
XX AC ABA92883;
XX AC ABA92883;
DT 03-APR-2002 (first entry)
XX DE Human fibroblast growth factor-19 (FGF-19) encoding cDNA SEQ ID NO:1.
XX KW Human; fibroblast growth factor-19; FGF-19; DNA49435-1219; anorectic;
XX KW leptin release inducer; gene therapy; obesity; gene; ss.
XX OS Homo sapiens.
XX FH Key Location/Qualifiers
XX CDS 464..1114
XX FT /*tag= a
XX FT /product= "fibroblast growth factor-19"
XX PN W0200118210-A1.
XX PD 15-MAR-2001.
XX PF 09-MAR-2000; 2000WO-US06471.
XX XX
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PR 08-SEP-1999; 99WO-US20594.
PR 15-SEP-1999; 99WO-US21090.
PR 20-DEC-1999; 99WO-US30999.
XX 22-FEB-2000; 2000WO-US04414.
XX
PA (GETH ) GENENTECH INC.
XX
XX Stewart TA, Tomlinson E;
XX PI
XX WPI; 2002-130151/17.
XX DR P-PSDB; ABB05222.
XX
XX Novel isolated fibroblast growth factor-19 polypeptide useful for
PT treating obesity, for inducing leptin release from adipocyte cells, and
PT for inducing decrease in glucose uptake in adipocyte cells
XX
XX Claim 3; Fig 1; 146pp; English.
XX
XX The present sequence encodes human fibroblast growth factor-19 (FGF-19)
CC protein (I). The cDNA clone encoding (I) is designated DNA49435-1219,
CC and was deposited with ATCC on November 21, 1997 as ATCC Deposit No.
CC 209480. (I) has anorectic activity, and can be used: (a) as an inducer of
CC leptin release from adipocyte cells; (b) as an inducer of decrease in
CC glucose uptake in adipocyte cells; and (c) in gene therapy. (I) is useful
CC for identifying a receptor for FGF-19, by combining (I) with a
CC composition (preferably a cell or cell membrane extract preparation)
CC comprising cell membrane material, where (I) complexes with a receptor on
CC the cell membrane material, and identifying the receptor as a FGF-19
CC receptor. (I) or a polynucleotide (II) encoding (I) can be useful for
CC inducing leptin release from adipocyte cells, or for inducing a decrease
CC in glucose uptake in adipocyte cells, by administering (I) or (II) to the
CC cells. (I) or (II) are useful for reducing the level of triglycerides or
CC free fatty acids in an individual, for increasing the metabolic rate in
CC an individual, for reducing total body mass in an individual, where the
CC reduction in total body mass includes a reduction in fat of the
CC individual, or for treating an individual for obesity or a condition
CC related to obesity, by administering (I) or (II) to the individual. (I)
CC or (II) is useful in tissue typing, and in diagnosis. (II) is useful as
CC hybridisation probes, in chromosome and gene mapping, in the generation
CC of anti-sense RNA and DNA, for the preparation of (I) by recombinant
CC techniques, to generate either transgenic or knock out animals, for
CC chromosome identification, and in gene therapy.
XX
SQ Sequence 2137 BP; 422 A; 648 C; 598 G; 469 T; 0 other;
Query Match 100.0%; Score 2137; DB 24; Length 2137;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GCTCCAGCCAGAACCTCGGGCCGCTGCGCGTGGGAGGAGTTCCCGAACCCGGC 60
Db 1 GCTCCAGCCAGAACCTCGGGCCGCTGCGCGTGGGAGGAGTTCCCGAACCCGGC 60
QY 61 CGCTAAGCAGGCGCTCTCTCCCGAGATCCGAGCGCTGGCGGGTCACTCCCGGCT 120
Db 61 CGCTAAGCAGGCGCTCTCTCCCGAGATCCGAGCGCTGGCGGGTCACTCCCGGCT 120
QY 121 GGGACAAAGAGCCGCGCTGCGCTGCCCGGCGCGGGAGGGGCTGGGCTGGGCGCG 180
Db 121 GGGACAAAGAGCCGCGCTGCGCTGCCCGGCGCGGGAGGGGCTGGGCTGGGCGCG 180
QY 181 AGCGGGGTGTGAGTGGGTGTGTGCGGGGGCGGAGGCTTGATGCAATCCCGA 240
Db 181 AGCGGGGTGTGAGTGGGTGTGTGCGGGGGCGGAGGCTTGATGCAATCCCGA 240
QY 241 TGTCTGGGTGCTTTGGCACCTACCCGCTGGGCGCGGTAAGCGCTACTATTAAGGCTGC 300
Db 241 TGTCTGGGTGCTTTGGCACCTACCCGCTGGGCGCGGTAAGCGCTACTATTAAGGCTGC 300
QY 301 CGGCCCCGAGCCCGCGCGCTCAGAGCAGAGCGCTGCCAGGATCTAGGCGCCACGA 360
Db 301 CGGCCCCGAGCCCGCGCGCTCAGAGCAGAGCGCTGCCAGGATCTAGGCGCCACGA 360
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QY 361 CCATCCCAACCGGACATCACAGCCCGGAGCGCATCCCGGTGCGCGCCAGCCCTCCGC 420  
Db 361 CCATCCCAACCGGACATCACAGCCCGGAGCGCATCCCGGTGCGCGCCAGCCCTCCGC 420  
QY 421 ACCCCCATCGCGGAGCTGCGCGGAGAGCCCGAGGAGGTGCCATCCGAGCGGGTGTGT 480  
Db 421 ACCCCCATCGCGGAGCTGCGCGGAGAGCCCGAGGAGGTGCCATCCGAGCGGGTGTGT 480  
QY 481 GGTGTCCACGATGATCTTGCCCGGCTCTGCGTGGCCGTGGCGGGCGCCCTCGC 540  
Db 481 GGTGTCCACGATGATCTTGCCCGGCTCTGCGTGGCCGTGGCGGGCGCCCTCGC 540  
QY 541 CTTCTCGAGCGGGGCGCCAGTGCACTACGGCTGGGGCGACCCCATCCGCTCGGCA 600  
Db 541 CTTCTCGAGCGGGGCGCCAGTGCACTACGGCTGGGGCGACCCCATCCGCTCGGCA 600  
QY 601 CTTGTACACCTCGCGGCGCCAGGGCTCTCCAGCTGCTTCCTGCGCATCCGTCGAGCG 660  
Db 601 CTTGTACACCTCGCGGCGCCAGGGCTCTCCAGCTGCTTCCTGCGCATCCGTCGAGCG 660  
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Db 661 CTTGTGACTCGCGGCGGGCCAGAGGGCGCACAGTTTGTGSGATCAAGSGCAGTGGC 720  
QY 721 TCTGCGGACCGTGGCCATCAAGGGCGTGACAGCGTGGGTAACCTCTGCAAGGGCGCGA 780  
Db 721 TCTGCGGACCGTGGCCATCAAGGGCGTGACAGCGTGGGTAACCTCTGCAAGGGCGCGA 780  
QY 781 CGGCAAGATGACAGGGCTGCTTCAGTACTCGAGGAGACGTGCTTTCGAGCAGGAGAT 840  
Db 781 CGGCAAGATGACAGGGCTGCTTCAGTACTCGAGGAGACGTGCTTTCGAGGAGGAGAT 840  
QY 841 CGGCCAGATGCTTACAATGTACCGATCCGAGAGACCCGCTCCCGGTTCCTCGAG 900  
Db 841 CGGCCAGATGCTTACAATGTACCGATCCGAGAGACCCGCTCCCGGTTCCTCGAG 900  
QY 901 CAGTCCCAACAGCGGAGCTGTACAAGAACAGAGGCTTTCTTCCACTCTCTCATTTGCT 960  
Db 901 CAGTCCCAACAGCGGAGCTGTACAAGAACAGAGGCTTTCTTCCACTCTCTCATTTGCT 960  
QY 961 GCCATGCTGCCATGTGTCGCCAGAGGCGCTGAGGACCTCAGGGGCCACTTGGAACTCGA 1020  
Db 961 GCCATGCTGCCATGTGTCGCCAGAGGCGCTGAGGACCTCAGGGGCCACTTGGAACTCGA 1020  
QY 1021 CATGTTCTTTCGCGCCCTGGAGACCGACAGCATGACCCATTTGGGCTGTACCCGGACT 1080  
Db 1021 CATGTTCTTTCGCGCCCTGGAGACCGACAGCATGACCCATTTGGGCTGTACCCGGACT 1080  
QY 1081 GGAGCCGTGAGGAGTCCCAAGCTTTGAGAAGTAACGTGAGACCATGCCGGGCTCTTCAC 1140  
Db 1081 GGAGCCGTGAGGAGTCCCAAGCTTTGAGAAGTAACGTGAGACCATGCCGGGCTCTTCAC 1140  
QY 1141 TGCTGCCAGGGCTGTGTACCTGACGCGTGGGGACGCTGCTTACAGAACACGTCCTG 1200  
Db 1141 TGCTGCCAGGGCTGTGTACCTGACGCGTGGGGACGCTGCTTACAGAACACGTCCTG 1200  
QY 1201 AGTCCACGTTCTGTTTAGCTTTAGGAAGAACATCTAGAAGTTGTACATATTCAGAGTTT 1260  
Db 1201 AGTCCACGTTCTGTTTAGCTTTAGGAAGAACATCTAGAAGTTGTACATATTCAGAGTTT 1260  
QY 1261 TCCATTGGCAGTCCAGTTTCTAGCCAATAGACTGTCTGATCATTAACATTCAGACCTG 1320  
Db 1261 TCCATTGGCAGTCCAGTTTCTAGCCAATAGACTGTCTGATCATTAACATTCAGACCTG 1320  
QY 1321 TAGCTTGGCCAGCTGCTGCTGGGCGCCCATCTCTCCCTGAGGTTGCTGACCAAGCT 1380  
Db 1321 TAGCTTGGCCAGCTGCTGCTGGGCGCCCATCTCTCCCTGAGGTTGCTGACCAAGCT 1380  
QY 1381 GCTGCACTGCTCAGTTCTGCTTGAATACCTCCATCGATGGGAACTCAGTTCTCTTTGGA 1440  
Db 1381 GCTGCACTGCTCAGTTCTGCTTGAATACCTCCATCGATGGGAACTCAGTTCTCTTTGGA 1440  
QY 1441 AAAATTTCTATGTCAAGCTGAAATTTCTCTAATTTTCTCATCTCCCGAGGAGCAGC 1500

Db 1441 AAAATTTCTATGTCAAGCTGAAATTTCTCTAATTTTCTCATCACTTCCCGAGGAGCAGC 1500  
QY 1501 CAGAAGACAGGAGTAGTTTAAATTCAGAACAGGTGATCCACTCTGTAAACACGAGCAGG 1560  
Db 1501 CAGAAGACAGGAGTAGTTTAAATTCAGAACAGGTGATCCACTCTGTAAACACGAGCAGG 1560  
QY 1561 TAAATTTCTACTCAACCCCATGTGGAAATGTATATCTACTTCCAGGACCAATTTG 1620  
Db 1561 TAAATTTCTACTCAACCCCATGTGGAAATGTATATCTACTTCCAGGACCAATTTG 1620  
QY 1621 CCCTTCCCAAAATCCCTCCAGGCCAGAACTGACTGAGCAGGATGGCCACCAAGCTTCA 1680  
Db 1621 CCCTTCCCAAAATCCCTCCAGGCCAGAACTGACTGAGCAGGATGGCCACCAAGCTTCA 1680  
QY 1681 GGAGTAGGGAAGCGCTGGAGCCCACTCCAGCCCTGGGACAACTTCAGAAATCCCCCTGA 1740  
Db 1681 GGAGTAGGGAAGCGCTGGAGCCCACTCCAGCCCTGGGACAACTTCAGAAATTCAGAA 1740  
QY 1741 GGCCAGTTCTGTCTGATGATGCTCTCTGAGAATAAATTCCTGCTCCCGGTCTCACTGCTT 1800  
Db 1741 GGCCAGTTCTGTCTGATGATGCTCTCTGAGAATAAATTCCTGCTCCCGGTCTCACTGCTT 1800  
QY 1801 CCATCTCCAGCCCAAGCCCTCTGCCACCTCAGATCCCTCCCATGATGATTTGGGCTT 1860  
Db 1801 CCATCTCCAGCCCAAGCCCTCTGCCACCTCAGATCCCTCCCATGATGATTTGGGCTT 1860  
QY 1861 CCCAGGCCCCCAAGCTTATGCAAGCTGCACTTCTGTTCAAAATCAGAAAGAAAG 1920  
Db 1861 CCCAGGCCCCCAAGCTTATGCAAGCTGCACTTCTGTTCAAAATCAGAAAGAAAG 1920  
QY 1921 ATTTGAAGACCCCAAGCTTGTCAATAAATTCCTGTTGGAAGCAGCGGGGGAAGACCTA 1980  
Db 1921 ATTTGAAGACCCCAAGCTTGTCAATAAATTCCTGTTGGAAGCAGCGGGGGAAGACCTA 1980  
QY 1981 GAACCCCTTCCCGCAGCACTTGGTTTTCGAACATGATATTTAGTAAATTAATTTTGATA 2040  
Db 1981 GAACCCCTTCCCGCAGCACTTGGTTTTCGAACATGATATTTAGTAAATTAATTTTGATA 2040  
QY 2041 TGTACATCTCTTATTTTCTTACATTTATGCCCCCAATATATTTATGATGTAAGT 2100  
Db 2041 TGTACATCTCTTATTTTCTTACATTTATGCCCCCAATATATTTATGATGTAAGT 2100  
QY 2101 GAGGTTTGTGTTGATATTAATAATGAGTTTGTGTTGT 2137  
Db 2101 GAGGTTTGTGTTGATATTAATAATGAGTTTGTGTTGT 2137

RESULT 10

AAx52224  
ID AAx52224 standard: DNA: 2133 BP.

AC AAx52224;

XX 25-JUN-1999 (first entry)

DE Protein PR0533 cDNA clone DNA49435-1219.

Secreted protein; transmembrane protein; human; enterocolitis;  
Zollinger-Ellison syndrome; gastrointestinal ulceration;  
congenital microvillus atrophy; skin disease; cell growth;  
abnormal keratinocyte differentiation; psoriasis; epithelial cancer;  
Parkinson's disease; Alzheimer's disease; ALS; neuropathy;  
fibromodulin; dermal scarring; Usher Syndrome; Atrophila areata;  
anti-thrombotic; wound healing; tissue repair; ss.

XX Homo sapiens.

OS WO9914328-A2.

XX 25-MAR-1999.

XX 16-SEP-1998; 98WO-US19330.

XX 25-NOV-1997; 97US-0066840.  
PR 17-SEP-1997; 97US-0059113.  
PR 17-SEP-1997; 97US-0059115.  
PR 17-SEP-1997; 97US-0059117.  
PR 17-SEP-1997; 97US-0059119.  
PR 17-SEP-1997; 97US-0059121.  
PR 17-SEP-1997; 97US-0059122.  
PR 17-SEP-1997; 97US-0059184.  
PR 18-SEP-1997; 97US-0059263.  
PR 18-SEP-1997; 97US-0059266.  
PR 15-OCT-1997; 97US-0062125.  
PR 17-OCT-1997; 97US-0062285.  
PR 17-OCT-1997; 97US-0062287.  
PR 21-OCT-1997; 97US-0063486.  
PR 24-OCT-1997; 97US-0062814.  
PR 24-OCT-1997; 97US-0063045.  
PR 24-OCT-1997; 97US-0063120.  
PR 24-OCT-1997; 97US-0063127.  
PR 24-OCT-1997; 97US-0063128.  
PR 27-OCT-1997; 97US-0063329.  
PR 27-OCT-1997; 97US-0063327.  
PR 28-OCT-1997; 97US-0063341.  
PR 28-OCT-1997; 97US-0063342.  
PR 28-OCT-1997; 97US-0063544.  
PR 28-OCT-1997; 97US-0063549.  
PR 28-OCT-1997; 97US-0063550.  
PR 28-OCT-1997; 97US-0063564.  
PR 29-OCT-1997; 97US-0063435.  
PR 29-OCT-1997; 97US-0063704.  
PR 29-OCT-1997; 97US-0063732.  
PR 29-OCT-1997; 97US-0063738.  
PR 29-OCT-1997; 97US-0063734.  
PR 29-OCT-1997; 97US-0064215.  
PR 29-OCT-1997; 97US-0063735.  
PR 31-OCT-1997; 97US-0063870.  
PR 31-OCT-1997; 97US-0064103.  
PR 03-NOV-1997; 97US-0064248.  
PR 07-NOV-1997; 97US-0064809.  
PR 12-NOV-1997; 97US-0065186.  
PR 17-NOV-1997; 97US-0065846.  
PR 18-NOV-1997; 97US-0065693.  
PR 21-NOV-1997; 97US-0066120.  
PR 21-NOV-1997; 97US-0066364.  
PR 24-NOV-1997; 97US-0066772.  
PR 24-NOV-1997; 97US-0066466.  
PR 24-NOV-1997; 97US-0066770.  
PR 24-NOV-1997; 97US-0066511.  
PR 24-NOV-1997; 97US-0066453.

(GETH ) GENENTECH INC.

Chen J, Goddard A, Gurney AL, Pennica D, Wood WL, Yuan J;

WPI; 1999-229533/19.  
P-PSDB; AAY13353.

New Isolated human genes and polypeptides used in, e.g. treatment of gastrointestinal ulceration

Claim 2; Fig 21; 320pp; English.

XX AAX52213-74 encode secreted and transmembrane human proteins, and are  
CC obtained from cDNA libraries, prepared from fetal lung, fetal kidney,  
CC fetal brain, fetal liver and fetal retina. The encoded polypeptides  
CC have specific uses based on their homology to known polypeptides,  
CC e.g. PRO211 and PRO217 can be used for disorders associated with the  
CC preservation and maintenance of gastrointestinal mucosa and the repair  
CC of acute and chronic mucosal lesions (e.g. enterocolitis,  
CC Zollinger-Ellison syndrome, gastrointestinal ulceration and congenital  
CC microvillus atrophy), skin diseases associated with abnormal

CC keratinocyte differentiation (e.g. psoriasis, epithelial cancers such as  
CC lung squamous cell carcinoma of the vulva and gliomas), potent effects on  
CC cell growth and development, diseases related to growth or survival of  
CC nerve cells including Parkinson's disease, Alzheimer's disease, ALS,  
CC neuropathies or cancer. PRO265 can be used as for fibromodulin, e.g. for  
CC reducing dermal scarring. PRO264 can be used as a target for anti-tumor  
CC drugs. PRO533 may be used in the treatment of Usher Syndrome or Atrophila  
CC areata; PRO269 can be used as an anti-thrombotic agent; PRO287  
CC polypeptides and portions may have therapeutic applications in wound  
CC healing and tissue repair; PRO317 can be used for treating problems of  
CC the kidney, uterus, endometrium, blood vessels, or related tissue, e.g.  
CC in the heart of genital tract.

XX  
SQ Sequence 2133 BP; 422 A; 641 C; 598 G; 472 T; 0 other;

Query Match 95.2%; Score 2035.2; DB 20; Length 2133;  
Best Local Similarity 98.8%; Pred. No. 0;  
Matches 2113; Conservative 0; Mismatches 18; Indels 7; Gaps 6;

QY 2 CTCACAGCCAAAGACCTCGGGCGCGTGCCTGGGGAGGAGTTCCCGAAACCCGGCC 61  
DB 1 CTCACAGCCAAAGACCTCGGGCGCGTGCCTGGGGAGGAGTTCCCGAAACCCGGCC 60  
QY 62 GCTAAGCGAGGCGCTCCTCCCGCAGATCCGAACGCCCTGGGGGGGTCAACCCGGCTG 121  
DB 61 GCTAAGCGAGGCGCTCCTCCCGCAGATCCGAACGCCCTGGGGGGGTCAACCCGGCTG 120  
QY 122 GGACAAAGCCCGCGCTGCCTCGCGGCGCGGGAGGGGCTGGGGTGGGGCCGGA 181  
DB 121 GGACAAAGCCCGCGCTGCCTCGCGGCGCGGGAGGGGCTGGGGTGGGGCCGGA 180  
QY 182 GCGGGGTGTGAGTGGGTGTGTGCGGGGGCGGAGGCTTGATCAATCCGATAAGAAAT 241  
DB 181 GCGGGGTGTGAGTGGGTGTGTGCGGGGGCGGAGGCTTGATCAATCCGATAAGAAAT 240  
QY 242 GCTCGGGTGTCTTGGGCACCTACCGTGGGGCGCGTAAGCGCTACTATATAGGCTGCC 301  
DB 241 GCTCGGGTGTCTTGGGCACCTACCGTGGGGCGCGTAAGCGCTACTATATAGGCTGCC 300  
QY 302 GCGCGGAGCGCGCGCGCGCTCAGAGCAGAGGCGCTCGTCCAGGATCTAGGGCCACGAC 361  
DB 301 GCGCGTGAAGCGCGCGCGCGCTCAGAGCAGAGGCGCTCGTCCAGGATCTAGGG--CAGGAC 359  
QY 362 CATCCCAACCCGGCACTACAGCCCGCGCAGCGATCCCGTGGCGCGCCAGCTCCCGCA 421  
DB 360 CATCCCAACCCGGCACTACAGCCCGCGCAGCGAT--CGGTCGCGCGCGC--GC 416  
QY 422 CCCCCATCGCGGAGCTGCGCGGAGAGCCAGGAGGTGCCATGCGGAGCGGTGTGTG 481  
DB 417 ACCCATCGCGGAGGTGCGCGCGAGAGCCAGAGAGTCCCATGCGAGCGGTGTGTG 476  
QY 482 GTGTCACAGTATGGATCTTGGCGGGCTCTGGCTGGCGGTGGCGGGCGTCCCGCTGCC 541  
DB 477 GTGTCACAGTATGGATCTTGGCGGGCTCTGGCTGGCGGTGGCGGGCGTCCCGCTGCC 536  
QY 542 TTCTCGAGCGGGGGCGCGCGCGCTGCGCTGCGCATCCCGCTGCGGCGAC 601  
DB 537 TTCTCGAGCGGGGGCGCGCGCGCTGCGCTGCGCATCCCGCTGCGGCGAC 596  
QY 602 CTGTACACCTCCGGCGCGCGCGCTCTCCAGTGTCTTCTGCGCATCCCGCTGCGGCGG 661  
DB 597 CTGTACACCTCCGGCGCGCGCGCTCTCCAGTGTCTTCTGCGCATCCCGCTGCGGCGG 656  
QY 662 GTGTCGAGTGCSCGGGGCGCGCGCGCGTGCAGTGTGTGTGGAGATCAAGGAGTGGCT 721  
DB 657 GTGTCGAGTGCSCGGGGCGCGCGCGCGTGCAGTGTGTGTGGAGATCAAGGAGTGGCT 716  
QY 722 CTCGGGACCGTGGCATCAAGGGCGTCCAGCGTGGGTACCTCTGCATGGGGCGCGAC 781  
DB 717 CTCGGGACCGTGGCATCAAGGGCGTCCAGCGTGGGTACCTCTGCATGGGGCGCGAC 776  
QY 782 GGCAAGATGAGGGGTGCTTCACTACTCGGAGGAGACTGTGCTTTCGAGGAGGAGATC 841

Db 777 GCAAGATCGAGGGGCTGCTTCAGTACTCGGAGGAAGACTGTGCTTTTCAGAGGAGGATC 836  
QY 842 CGCCAGATGGCTACAAATGTGTACCGATCCGAGAGCACCAGCTCCCGGTCTCCCGTGACC 901  
Db 837 CGCCAGATGGCTACAAATGTGTACCGATCCGAGAGCACCAGCTCCCGGTCTCCCGTGACC 896  
QY 902 ATGTGCAACACAGGGAGCTGTACAAGAACAGAGGCTTTTCCACTCTCTCATTTCCGTG 961  
Db 897 AGTGTCAACACAGGGAGCTGTACAAGAACAGAGGCTTTTCCACTCTCTCATTTCCGTG 956  
QY 962 CCCATGCTGCCCATGGTCCACAGGAGCCTGAGGACCTCAGGGCCACTTGAATCTGAC 1021  
Db 957 CCCATGCTGCCCATGGTCCACAGGAGCCTGAGGACCTCAGGGCCACTTGAATCTGAC 1016  
QY 1022 ATGTTCTCTTCGCCCTTGAGACCCACAGCATGGACCCATTTGGGCTTGTACCCGGAGTG 1081  
Db 1017 ATGTTCTCTTCGCCCTTGAGACCCACAGCATGGACCCATTTGGGCTTGTACCCGGAGTG 1076  
QY 1082 GAGGCGGTGAGAGTCCCAAGCTTTGAGAAGTAACGTGAGACCATGGCCGGGCTCTTCACT 1141  
Db 1077 GAGGCGGTGAGAGTCCCAAGCTTTGAGAAGTAACGTGAGACCATGGCCGGGCTCTTCACT 1136  
QY 1142 GCTGCCAGGGCTGTGGTACCTGCAGCGTGGGGAGCTGCTTCTACAAAGACAGTCCGCA 1201  
Db 1137 GCTGCCAGGGCTGTGGTACCTGCAGCGTGGGGAGCTGCTTCTACAAAGACAGTCCGCA 1196  
QY 1202 GTCCAGTTCTCTTAGCTTTAGGAAGAACATCTAGAAATTTGTACATATTCAGAGTTT 1261  
Db 1197 GTCCAGTTCTCTTAGCTTTAGGAAGAACATCTAGAAATTTGTACATATTCAGAGTTT 1256  
QY 1262 CCATTGGCAGTGCAGTTTCTTAGCAATAGACTTGTCTGATCATAACTTTGAAGCC-TG 1320  
Db 1257 CCATTGGCAGTGCAGTTTCTTAGCAATAGACTTGTCTGATCATAACTTTGAAGCC-TTG 1316  
QY 1321 TAGCTTGCCACGCTGCTGCTGGG-CCGCCATTCTGCTCCCTCGAGGTTGCTGGACAAGC 1379  
Db 1317 TACTTGCCACGCTGCTGCTGGGCCCCCACTTCTGCTCCCTCGAGGTTGCTGGACAAGC 1376  
QY 1380 TGCTGCAGTGTCTCAGTTCTGCTTGAATACCTCCATCGATGGGAACTCACTTCCCTTTGG 1439  
Db 1377 TGCTGCAGTGTCTCAGTTCTGCTTGAATACCTCCATCGATGGGAACTCACTTCCCTTTGG 1436  
QY 1440 AAAATTTCTTATGTCAAGCTGAAATTTCTTAATTTTCTCATCATCTCCCGAGGAGCAG 1499  
Db 1437 AAAAATTTCTTATGTCAAGCTGAAATTTCTTAA-TTTTTCTCATCATCTCCCGAGGAGCAG 1495  
QY 1500 CCAGAAGACAGGAGTACGTTTAAATTCAGGAACAGGTGATCCACTCTTAAACAGCAG 1559  
Db 1496 CCAGAAGACAGGAGTACGTTTAAATTCAGGAACAGGTGATCCACTCTGTAAACAGCAG 1555  
QY 1560 GTAAATTTTCACTCAACCCCATGTGGAAATTTGATCTATATCTACTTCCAGGAGCAATTT 1619  
Db 1556 GTAAATTTTCACTCAACCCCATGTGGAAATTTGATCTATATCTACTTCCAGGAGCAATTT 1615  
QY 1620 GCCCTTCCCAATTCCTCCAGGCCAGAACTGACTGGAGCAGCATGGCCACCAAGGCTTC 1679  
Db 1616 GCCCTTCCCAATTCCTCCAGGCCAGAACTGACTGGAGCAGCATGGCCACCAAGGCTTC 1675  
QY 1680 AGGAGTAGGGGAAGCCTGGAGCCCCCACTCCAGCCCTGGGAGCAACTTGAAATTCGCCCTG 1739  
Db 1676 AGAAGTAGGGGAAGCCTGGAGCCCCCACTCCAGCCCTGGGAGCAACTTGAAATTCGCCCTG 1735  
QY 1740 AGGCGAGTTCTCTCATGATGCTGCTCGAGAAATTAACGTGCTCCCGGTGTCACCTGCT 1799  
Db 1736 AGGCCAGTTTCTGTATGATGCTGCTCGAGAAATTAACGTGCTCCCGGTGTCACCTGCT 1795  
QY 1800 TCCATCTCCAGCCACCAAGCCCTCTGGCCCACTCACATGCTCCGCCATTTGGGGCC 1859  
Db 1796 TCCATCTCCAGCCACCAAGCCCTCTGGCCCACTCACATGCTCCGCCATTTGGGGCC 1855  
QY 1860 TCCAGGCCCCCAGCTTATGTCAACCTGCACTTCTGTTCAAAAATCAGGAAAAAGAAA 1919  
Db 1856 TCCAGGCCCCCAGCTTATGTCAACCTGCACTTCTGTTTCAAAAATCAGGAAAAAGAAA 1915

QY 1920 GATTTGAACACCCCAAGTCTTGTCAATAACTTCTGTTGGAAGCAGCGGGGAGACCT 1979  
Db 1916 GATTTGAACACCCCAAGTCTTGTCAATAACTTCTGTTGGAAGCAGCGGGGAGACCT 1975  
QY 1980 AGAACCCCTTCCCGACGACTTGGTTTTCACAACATGATATTTATGAGTAATTTATTTGAT 2039  
Db 1976 AGAACCCCTTCCCGACGACTTGGTTTTCACAACATGATATTTATGAGTAATTTATTTGAT 2035  
QY 2040 ATGTACATCTCTTATTTCTTACATTTATATGCCCCCAAAATATATATGATGATCTAAG 2099  
Db 2036 ATGTACATCTCTTATTTCTTACATTTATATGCCCCCAAAATATATATGATGATCTAAG 2095  
QY 2100 TGAGGTTTCTTGTATATTAATAATGCAGTTTCTTTGT 2137  
Db 2096 TGAGGTTTCTTGTATATTAATAATGCAGTTTCTTTGT 2133

RESULT 11  
AAAX28430  
ID AAX28430 standard; DNA; 2133 BP.  
XX  
AC AAX28430;  
XX  
DT 22-JUN-1999 (first entry)  
XX  
DE FGF homologue PRO533 coding sequence.  
XX  
KW Antibody; PRO187; PRO533; PRO214; PRO240; PRO211; PRO230; PRO261; PRO246;  
EBAP-2; inhibitor; tumour growth; cancer; EGF-like homologue;  
KW FGF-8 homologue; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO9914327-A2.  
XX  
PD 25-MAR-1999.  
XX  
PF 10-SEP-1998; 98WU-18824.  
XX  
PR 25-NOV-1997; 97US-0066840.  
PR 17-SEP-1997; 97US-0059114.  
PR 18-SEP-1997; 97US-0059117.  
PR 18-SEP-1997; 97US-0059263.  
PR 15-OCT-1997; 97US-0062125.  
PR 17-OCT-1997; 97US-0062285.  
PR 17-OCT-1997; 97US-0062287.  
PR 24-OCT-1997; 97US-0062816.  
PR 29-OCT-1997; 97US-0063704.  
XX  
PA (GEPH ) GENENTECH INC.  
XX  
PI Botstein D, Goddard A, Gurney A, Hillan K, Lawrence DA;  
Roy M, Wood WJ;  
XX  
DR WPI: 1999-229532/19.  
P-PSDB: AAY05280.  
XX  
PT Antibodies against specific proteins overexpressed in tumours  
XX  
PS Example 1: Fig 5: 130pp; English.  
XX  
CC This sequence encodes the FGF homologue PRO533.  
CC The invention relates to antibodies (Ab) that bind to any of the  
CC polypeptides (i) designated PRO187; PRO533; PRO214; PRO240; PRO211;  
CC PRO230; PRO261; PRO246 or EBAP-2. The Ab, or other agents that inhibit  
CC expression and/or activity of (i) are used: (i) to inhibit growth of  
CC tumours; and (ii) as diagnostic/prognostic reagents for detection or  
CC quantification of (i) in cells or tissues, by standard immunoassays, with  
CC overexpression being indicative of cancer. For therapeutic use, the Ab  
CC may be conjugated to a toxin, chemotherapeutic agent or radioisotope.  
CC Genes expressing (i), many of which are growth factor homologues, are  
CC overexpressed in some cases of cancer.

XX SQ Sequence 2133 BP; 422 A; 641 C; 598 G; 472 T; 0 other;

Query Match 95.2%; Score 2035.2; DB 20; Length 2133;  
Best Local Similarity 98.8%; Pred. No. 0;  
Matches 2113; Conservative 0; Mismatches 18; Indels 7; Gaps 6;

Qy 2 CTCACGCCAAGAACCTCGGGGGCGCTGCGGTGGGAGAGTTCCTCCCGAAACCCGGCC 61  
Db 1 CTCACGCCAAGAACCTCGGGGGCGCTGCGGTGGGAGAGTTCCTCCCGAAACCCGGCC 60

Qy 62 GCTAAGCGAGGCTCCTCTCCCGCAGATCCGAACGGCCTGGGGGGGTACCCCGGCTG 121  
Db 61 GCTAAGCGAGGCTCCTCTCCCGCAGATCCGAACGGCCTGGGGGGGTACCCCGGCTG 120

Qy 122 GGACAAAGCCGCGCGCTGCTGCCCGGCGCGGGAGGGGCTGGGGCCGGA 181  
Db 121 GGACAAAGCCGCGCGCTGCTGCCCGGCGCGGGAGGGGCTGGGGCCGGA 180

Qy 182 GGGGGGTGTGAGTGGGTGTGTGGGGGGCGGAGGCTTGATCAATCCCGATAAGAAAT 241  
Db 181 GGGGGGTGTGAGTGGGTGTGTGGGGGGCGGAGGCTTGATCAGTCCCGATAAGAAAT 240

Qy 242 GCTCGGTGTGTGGCACCCTACCGTGGGGCGCGGTAAAGCGCTACTATATAAGCTGCC 301  
Db 241 GCTCGGTGTGTGGGCACCCTACCGTGGGGGGCGGTAAAGCGCTACTATATAAGCTGCC 300

Qy 302 GGGCGGAGCGCGCGCGCTCAGACGAGGAGGCGCTGCGTCCAGGATCTAGGGCCAGGAC 361  
Db 301 GGGCGTGAAGCGCGCGCGCTCAGACGAGGAGGCGCTGCGTCCAGGATCTAGGG- CAGGAC 359

Qy 362 CATCCCAACCGGGACTCACAGCGCGCGAGCGATCCCGCTGCGCGGCCAGCGCTCCGCGA 421  
Db 360 CATCCCAACCGGGACTCACAGCGCGCGAGCGAT- CCGGTGCGCGGCCAGCTTCC- GC 416

Qy 422 CCCCATCGCGGAGCTGCGCGGAGCGCCAGGAGCGCCAGGAGTGCCATGCGGAGCGGTGTGTG 481  
Db 417 ACCCATCGCGGAGCTGCGCGGAGCGCCAGGAGCGCCATGCGGAGCGGTGTGTG 476

Qy 482 GTGCTCCACGTATGGATCTTGGCGGGCTCTGGCTGGCGCTGGCGGGCGCCCGCTCGCC 541  
Db 477 GTGCTCCACGTATGGATCTTGGCGGGCTCTGGCTGGCGCTGGCGGGCGCCCGCTCGCC 536

Qy 542 TTCTCGAGCGGGGGCCCCAGCTGCTAGCTAGGCTGGGGCGACCCCATCCCGCTGCGGCAC 601  
Db 537 TTCTCGAGCGGGGGCCCCAGCTGCTAGCTAGGCTGGGGCGACCCCATCCCGCTGCGGCAC 596

Qy 602 CTGTACACCTCCGCGCGCCACGGCTCTCCAGCTGCTTCTGCGCATCCGCTGCGGAGCGG 661  
Db 597 CTGTACACCTCCGCGCGCCACGGCTCTCCAGCTGCTTCTGCGCATCCGCTGCGGAGCGG 656

Qy 662 GTCGTGAGCTGCGCGGGGCCAGAGCGCCACAGTTTGTCTGGAGATCAAGGCGAGTCTGCT 721  
Db 657 GTCGTGAGCTGCGCGGGGCCAGAGCGCGCACAGTTTGTCTGGAGATCAAGGCGAGTCTGCT 716

Qy 722 CTGGGACCTGGGCATCAAGGGGCTGACAGCGTGGCGTACCTCTGCTGATGGGGCGGAC 781  
Db 717 CTGGGACCTGGGCATCAAGGGGCTGACAGCGTGGCGTACCTCTGCTGATGGGGCGGAC 776

Qy 782 GGCAGAGTCAGGGGCTGCTTCACTACTCGGAGGAGACTGTGCTTTCGAGGAGGAGATC 841  
Db 777 GGCAGAGTCAGGGGCTGCTTCACTACTCGGAGGAGACTGTGCTTTCGAGGAGGAGATC 836

Qy 842 CGGCCAGATGGCTACAAATGTGTACCGATCCGAGAAGCACCCTCCCGGTCTCCCTGAGC 901  
Db 837 CGGCCAGATGGCTACAAATGTGTACCGATCCGAGAAGCACCCTCCCGGTCTCCCTGAGC 896

Qy 902 AGTGCCAAACAGCGGAGCTGTACAAGACAGAGGCTTCTTCCACTCTCTCATTTCCCTG 961  
Db 897 AGTGCCAAACAGCGGAGCTGTACAAGACAGAGGCTTCTTCCACTCTCTCATTTCCCTG 956

Qy 962 CCCATGCTGCCATGTGCCAGAGGAGCTGAGGACCTCAGGGGCCACTTGGAACTCTGAC 1021  
Db 956 CCCATGCTGCCATGTGCCAGAGGAGCTGAGGACCTCAGGGGCCACTTGGAACTCTGAC 1011

Db 957 CCCATGCTGCCATGTGTCCTCCAGAGGAGCCCTGAGGACCTCAGGGGCCACTTGGAACTCTGAC 1016

Qy 1022 ATGTTCTCTTCGGCCCTGGAGACCGACAGCATGGACCACTTTGGGCTGTGTACCGGACTG 1081

Db 1017 ATGTTCTCTTCGGCCCTGGAGACCGACAGCATGGACCACTTTGGGCTGTGTACCGGACTG 1076

Qy 1082 GAGGCCGTGAGGAGTCCCACTTTTGAAGTAACATGAGACCATGCCCCGGGCTCTTTCACCT 1141

Db 1077 GAGGCCGTGAGGAGTCCCACTTTTGAAGTAACATGAGACCATGCCCCGGGCTCTTTCACCT 1136

Qy 1142 GCTTCCAGGGGCTGTGTACTCAGCTGAGCGTGGGAGCTGCTTCTACAGAACAGTCTCTGA 1201

Db 1137 GCTTCCAGGGGCTGTGTACTCAGCTGAGCGTGGGAGCTGCTTCTACAGAACAGTCTCTGA 1196

Qy 1202 GTCACAGTTCCTGTTTGTAGCTTTAGGAAGAAACATCTAGAAGTTGTACATATTACAGATTTT 1261

Db 1197 GTCACAGTTCCTGTTTGTAGCTTTAGGAAGAAACATCTAGAAGTTGTACATATTACAGATTTT 1256

Qy 1262 CCATTTGGCAGTGCAGTTTCTAGCCATAGACTTGTCTGATCATATAACATTGTAAAGCC- TG 1320

Db 1257 CCATTTGGCAGTGCAGTTTCTAGCCATAGACTTGTCTGATCATATAACATTGTAAAGCCCTTG 1316

Qy 1321 TAGCTTGCACAGCTGCTGCTGGG- CCCCCTTCTGCTCCCTCGAGGTTGCTGCACAGC 1379

Db 1317 TACTTGGCCAGCTGTTTGGCTGGCCCCCATTTCTGCTCCCTCGAGGTTGCTGGACAAGC 1376

Qy 1380 TGTGCTACTGCTCAGTTCTGCTTGAATACCTCCATCGATGGGAACTCACTTCTCTTTGG 1439

Db 1377 TGTGCTACTGCTCAGTTCTGCTTGAATACCTCCATCGATGGGAACTCACTTCTCTTTGG 1436

Qy 1440 AAAAAATTTATGTCAAGCTGAAATTTCTTAATTTTCTCATCATCTTCCCAGGAGCAG 1499

Db 1437 AAAAAATTTATGTCAAGCTGAAATTTCTTAA- TTTTCTCATCATCTTCCCAGGAGCAG 1495

Qy 1500 CCAGAAGACAGGAGTAGTTTAAATTTCCAGAACAGGTGATCCACTCTGTAAACACAGCAG 1559

Db 1496 CCAGAAGACAGGAGTAGTTTAAATTTCCAGAACAGGTGATCCACTCTGTAAACACAGCAG 1555

Qy 1560 GTAAATTTCACTCAACCCCATGTGGGAATTTGATCTATATCTTCTACTTCCAGGAGCATT 1619

Db 1556 GTAAATTTCACTCAACCCCATGTGGGAATTTGATCTATATCTTCTACTTCCAGGAGCATT 1615

Qy 1620 GCCCTTCCCAAAATCCCTCCAGGCCAGNACTGACTGGAGAGGAGTGGCCACAGGCTTC 1679

Db 1616 GCCCTTCCCAAAATCCCTCCAGGCCAGNACTGACTGGAGAGGAGTGGCCACAGGCTTC 1675

Qy 1680 AGGAGTAGGGGAAGCCTTGGAGCCCACTCCAGGCCCTGGGACAACTTGAGAAATTTCCCCCTG 1739

Db 1676 AGAAGTAGGGGAAGCCTTGGAGCCCACTCCAGGCCCTGGGACAACTTGAGAAATTTCCCCCTG 1735

Qy 1740 AGGCCAGTTCTGTCATGGATGCTGCTGCTGAGAATAAATGCTGTCCCGGTGTCTACCTGCT 1799

Db 1736 AGGCCAGTTCTGTCATGGATGCTGCTGCTGAGAATAAATGCTGTCCCGGTGTCTACCTGCT 1795

Qy 1800 TCCATCTCCAGCCCCCAGCCCTCTGCCACCTCAGATGCCCTCCCCATGGATTGGGGCC 1859

Db 1796 TCCATCTCCAGCCCCCAGCCCTCTGCCACCTCAGATGCCCTCCCCATGGATTGGGGCC 1855

Qy 1860 TCCAGGCCCCCCCAGCCCTTATGTCAAACTGCTCAAACTTCTTGTTCAAAAATCAGGAAAAAGAAA 1919

Db 1856 TCCAGGCCCCCCCAGCCCTTATGTCAAACTGCTCAAACTTCTTGTTCAAAAATCAGGAAAAAGAAA 1915

Qy 1920 GATTTGAAGACCCCAAGTCTTTGCAATAAATGCTGTGTGGAAGCAGCGGGGGAAGACCT 1979

Db 1916 GATTTGAAGACCCCAAGTCTTTGCAATAAATGCTGTGTGGAAGCAGCGGGGGAAGACCT 1975

Qy 1980 AGAACCTTCCCGCAGCCTTGGTTTCCAAATGATATTATGAGTAATTTATTTTAT 2039

Db 1976 AGAACCTTCCCGCAGCCTTGGTTTCCAAATGATATTATGAGTAATTTATTTTAT 2035

Qy 2040 ATGTACATCTCTTATTTTCTTACATTTATGCCCCCAATTTATTTATGATGTAAG 2099

Db 2036 ATGTACATCTCTTATTTTCTTACATTTATGCCCCCAATTTATTTATGATGTAAG 2095

QY 2100 TGAGGTTTGTGTTATATAAATGGAGTTGTTTGT 2137  
|||||  
Db 2096 TCAGGTTTGTGTTATATAAATGGAGTTGTTTGT 2133

RESULT 12

AAA96669  
ID AAA96669 standard; DNA; 1542 BP.

XX  
AC AAA96669;

XX  
DT 08-FEB-2001 (first entry)

XX  
DE DNA encoding a human fibroblast growth factor (FGF-X).

XX Human: fibroblast growth factor; FGF-X; trophic support; asthma;  
KW neuronal cell degeneration; Parkinson's disease; substantia nigra;  
KW pulmonary infarction; emphysema; chronic obstructive pulmonary disease;  
KW infection; autoimmune disease; pulmonary arterial hypertension;  
KW pulmonary venous hypertension; pulmonary fibrosis; pulmonary disease;  
KW cystic fibrosis; pulmonary injury; bronchial injury; tracheal injury;  
KW amyotrophic lateral sclerosis; Alzheimer's disease; hypothyroidism;  
KW Huntington's disease; nervous system tumour; multiple sclerosis;  
KW thyroid disease; cancer; inflammatory disease; macular degeneration;  
KW retinitis pigmentosa; cardiomyopathy; skeletal myopathy; bone disease;  
KW arthritis; wound healing; angiogenesis; ss.

XX Homo sapiens.

XX Key Location/Qualifiers  
FH CDS 18..461

FT /\*tag= a

FT /product= "fibroblast growth factor x"

PN WO200056890-A1.

XX 28-SEP-2000.

XX 16-MAR-2000; 2000WO-US07289.

PR 19-MAR-1999; 99US-0125158.

PR 22-JUN-1999; 99US-0140521.

XX (CHIR ) CHIRON CORP.

XX Kavanaugh M, Shyamala V, Reinhard C;

XX WPI; 2000-628264/60.

DR P-PSDB; AAB19034.

XX Novel human fibroblast growth factor polypeptide and polynucleotide  
PT useful for treating chronic obstructive pulmonary disease, cystic  
PT fibrosis, asthma and neurological disorders such as Parkinson's disease

XX Claim 2; Page 52-53; 57pp; English.

XX The present sequence encodes a human fibroblast growth factor (FGF-X)  
CC polypeptide. The FGF-X polypeptide is useful for providing trophic  
CC support for cells in a patient suffering from a condition characterized  
CC by neuronal cell degeneration such as Parkinson's disease or conditions  
CC which affects the substantia nigra. FGF-X is also useful for providing  
CC trophic support for cells in a patient suffering from a condition  
CC selected from pulmonary infarction, emphysema, chronic obstructive  
CC pulmonary disease, asthma, infection, autoimmune disease, pulmonary  
CC arterial hypertension, pulmonary venous hypertension, pulmonary fibrosis,  
CC pulmonary disease of immaturity, cystic fibrosis, pulmonary injury,  
CC bronchial injury or tracheal injury. FGF-X also plays a role in the  
CC development and recovery from a variety of central nervous system  
CC diseases, peripheral neuropathy, amyotrophic lateral sclerosis, and  
CC Alzheimer's disease, Huntington's disease, nervous system tumours and  
CC multiple sclerosis. Other such disease includes thyroid disease

CC including thyroid tumours, cancer, inflammatory disease, hypothyroidism  
CC and hyperthyroidism/Grave's disease, parathyroid diseases, diseases of  
CC the eye including macular degeneration, retinitis pigmentosa,  
CC cardiomyopathies, skeletal myopathies, bone disease and arthritis,  
CC wound healing and for angiogenesis or to preserve function, survival of  
CC cells.

XX Sequence 1542 BP; 401 A; 399 C; 346 G; 396 T; 0 other;

Query Match 62.2%; Score 1328.4; DB 21; Length 1542;  
Best Local Similarity 98.4%; Pred No. 3.9e-289;  
Matches 1352; Conservative 0; Mismatches 21; Indels 1; Gaps 1;

QY 764 CTCTGCATGGGCGCCGACGCGCAAGATGTCAGGGCTGCTTTCAGTACTTCGAGGAGACTGT 823  
|||  
Db 111 CTCTGATGCTCAGAGCTGCCTGTTTCTCTCCAGCTTCAGTACTTCGAGGAGACTGT 170

QY 824 GCTTTTCGAGGAGGAGATCCGCCAGATGGCTACAAATGTGTACGATCCGAGAGTACCGG 883  
|||||  
Db 171 GCTTTTCGAGGAGGAGATCCGCCAGATGGCTACAAATGTGTACGATCCGAGAGTACCGG 230

QY 884 CTCGCGGTCTCCCTCAGCAGTCCCAACAGCGCGAGCTCTACAACAGACAGAGCTTCTT 943  
|||||  
Db 231 CTCGCGGTCTCCCTCAGCAGTCCCAACAGCGCGAGCTCTACAACAGACAGAGCTTCTT 290

QY 944 CCACCTCTCTCATTTTCTGCCCCATGCTGGCCATGGTCCGAGAGAGGCTTGAGGACCTCAGG 1003  
|||||  
Db 291 CCACCTCTCTCATTTTCTGCCCCATGCTGGCCATGGTCCGAGAGAGGCTTGAGGACCTCAGG 350

QY 1004 GGCCACTTGGGAATCTGACATGTTCTCTTCGCCCTTCGAGAGCGACAGCATGACATTT 1053  
|||||  
Db 351 GGCCACTTGGGAATCTGACATGTTCTCTTCGCCCTTCGAGAGCGACAGCATGACATTT 410

QY 1064 GGGCTTGTACCGGACTGGAGGCGGTGAGGAGTCCAGCTTTGAGAAAGTAAGTGAGACCA 1123  
|||||  
Db 411 GGGCTTGTACCGGACTGGAGGCGGTGAGGAGTCCAGCTTTGAGAAAGTAAGTGAGACCA 470

QY 1124 TGCCCGGGCTCTTTCACCTGCTGCCAGGGGCTGTGGTACCTGTCAGGCTGGGGAGCGTCTT 1183  
|||||  
Db 471 TGCCCGGGCTCTTTCACCTGCTGCCAGGGGCTGTGGTACCTGTCAGGCTGGGGAGCGTCTT 530

QY 1184 CTACAAGAACAGCTCTGAGTCCACGTTCTGTTTACGTTTTCAGGAGAACATCTAGAAAT 1243  
|||||  
Db 531 CTACAAGAACAGCTCTGAGTCCACGTTCTGTTTACGTTTTCAGGAGAACATCTAGAAAT 590

QY 1244 GTACATATTCAGAGTTTTCATTGGCAGTCCAGTTTCTAGCCAAATAGACTTCTCTGATC 1303  
|||||  
Db 591 GTACATATTCAGAGTTTTCATTGGCAGTCCAGTTTCTAGCCAAATAGACTTCTCTGATC 650

QY 1304 ATACATTTGTAAGCCTGTAGCTTGCCAGCTGCTGCTGGGCGCCCATTTCTGCTGCTCG 1363  
|||||  
Db 651 ATACATTTGTAAGCCTGTAGCTTGCCAGCTGCTGCTGGGCGCCCATTTCTGCTGCTCG 710

QY 1364 AGTTGCTGGACAAGCTGCTGCAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1423  
|||||  
Db 711 AGTTGCTGGACAAGCTGCTGCAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 770

QY 1424 AACTCAGTCTCTTTCGAAAAATTTCTATCTCAAGCTGAAATTTCTCTAAATTTTCTCATC 1483  
|||||  
Db 771 AACTCAGTCTCTTTCGAAAAATTTCTATCTCAAGCTGAAATTTCTCTAAATTTTCTCATC 830

QY 1484 ACTTCCCGGAGGAGCGCCAGAGAGAGGAGGAGTGTGTTTAAATTTTCAGGAGAACAGTGTAT 1543  
|||||  
Db 831 ACTTCCCGGAGGAGCGCCAGAGAGAGGAGGAGTGTGTTTAAATTTTCAGGAGAACAGTGTAT 890

QY 1544 CTCTCTAAACAGCAGGTAAATTTTCACTCAACCCCATGTGGGAATTTGATCTATCTCTA 1603  
|||||  
Db 891 CTCTCTAAACAGCAGGTAAATTTTCACTCAACCCCATGTGGGAATTTGATCTATCTCTA 950

QY 1604 CTTCGAGGAGCATTTGCGCTTCCCAAAATCCCTCCAGGCGCAGAACTGACTGAGGAGGACA 1663  
|||||  
Db 951 CTTCGAGGAGCATTTGCGCTTCCCAAAATCCCTCCAGGCGCAGAACTGACTGAGGAGGACA 1010

QY 1564 TGGCCCCACAGGCTTCAGGAGTAGGGGAAGCCTGGAGAGCCGCCACCTCCAGCCCTGGGACAAC 1723  
Db TGGCCCCACAGGCTTCAGGAGTAGGGGAAGCCTGGAGAGCCGCCACCTCCAGCCCTGGGACAAC 1070  
QY 1724 TTGAGAAATCCCCCTGAGGCCAGTTCCTCATGGATGCTGCTCGCAATAAATCTGCTGT 1783  
Db TTGAGAAATCCCCCTGAGGCCAGTTCCTCATGGATGCTGCTCGCAATAAATCTGCTGT 1130  
QY 1784 CCCGGTGTACCTCTTCCATCTCCAGAGCCACAGCCCTCTGCGCCACCTCACATGCTTC 1843  
Db CCCGGTGTACCTCTTCCATCTCCAGAGCCACAGCCCTCTGCGCCACCTCACATGCTTC 1190  
QY 1844 CCCATGATGGGGCCTCCAGAGCCGCCACCTTATGTCAACCTGCACTTCTTGTTCAAA 1903  
Db CCCATGATGGGGCCTCCAGAGCCGCCACCTTATGTCAACCTGCACTTCTTGTTCAAA 1250  
QY 1904 AATCAGAAAGAAAGATTTGAAGACCCCAAGCTTGTCAATAAATCTGCTGTGGAAG 1963  
Db AATCAGAAAGAAAGATTTGAAGACCCCAAGCTTGTCAATAAATCTGCTGTGGAAG 1310  
QY 1964 CAGCGGGGAGACCTAGAACCCCTTCCCGAGCACTTGGTTTCCCAACATGATATTTATG 2023  
Db CAGCGGGGAGACCTAGAACCCCTTCCCGAGCAC-TGGTTTCCCAACATGATATTTATG 1369  
QY 2024 AGTAATTTATTTGATATGATATCTCTTATTTCTTACATTTATTTATGCCCCCAATTA 2083  
Db AGTAATTTATTTGATATGATATCTCTTATTTCTTACATTTATTTATGCCCCCAATTA 1429  
QY 2084 TATTATGTATGTAAGTTCAGGTTTGTGTATATTAATAATGAGTTTGTGTGT 2137  
Db TATTATGTATGTAAGTTCAGGTTTGTGTATATTAATAATGAGTTTGTGTGT 1483

RESULT 13

AAH34709  
ID AAH34709 standard; cDNA; 914 BP.  
XX AAH34709;  
AC AAH34709;  
DT 03-SEP-2001 (first entry)  
XX Human colon cancer antigen encoding cDNA SEQ ID NO:1791.  
XX Human; colon cancer; colon cancer antigen; diagnosis; detection;  
KW colorectal carcinoma; ss.  
XX Homo sapiens.  
XX WO200122920-A2.  
PN 05-APR-2001.  
PD 28-SEP-2000; 2000WO-US26524.  
XX 29-SEP-1999; 99US-0157137.  
PR 03-NOV-1999; 99US-0163280.  
XX (HUMA-) HUMAN GENOME SCI INC.  
PA Ruben SM, Barash SC, Birse CE, Rosen CA;  
XX WPI; 2001-235357/24.  
DR P-PSDB; AAG75304.  
XX Nucleic acids encoding 4277 human colon cancer-associated polypeptides,  
PT useful for preventing, diagnosing and/or treating colorectal cancers -  
XX Claim 1; Page 3348-3349; 9803pp; English.  
PS AAH32943 to AAH37195 and AAG77788 represent human colon  
CC cancer-associated nucleic acid molecules (N) and proteins (P), where  
CC the proteins are collectively known as colon cancer antigens. The colon  
CC cancer antigens have cytostatic activity and can be used in gene

CC therapy and vaccine production. N and P may be used in the prevention,  
CC diagnosis and treatment of diseases associated with inappropriate P  
CC expression. For example, N and P may be used to treat disorders  
CC associated with decreased expression by rectifying mutations or deletions  
CC in a patient's genome that affect the activity of P by expressing  
CC inactive proteins or to supplement the patient's own production of P.  
CC Additionally, N may be used to produce the colon cancer-associated Ps,  
CC by inserting the nucleic acids into a host cell and culturing the cell  
CC to express the proteins. N and P can be used in the prevention, diagnosis  
CC and treatment of colorectal carcinomas and cancers. AAH37196 to AAH37204  
CC and AAH77789 represent sequences used in the exemplification of the  
CC present invention.  
CC N.B. Pages 666 to 682 and page 7053 of the sequence listing were  
CC missing at time of publication, meaning no sequences are present for  
CC SEQ ID NO:1027 to 1052, 7921 and 7922.  
XX  
SQ Sequence 914 BP; 231 A; 238 C; 184 G; 261 T; 0 other;  
  
Query Match 41.8%; Score 888.4; DB 22; Length 914;  
Best Local Similarity 99.8%; Pred. No. 3.5e-190;  
Matches 900; Conservative 0; Mismatches 1; Indels 1; Gaps 1;  
  
QY 1237 AGAAGTTGTACATATTCAGAGTTTTCATTGGCAGTGCCAGTTTCTAGCCAAATAGACTTG 1296  
Db 1 AGAAGTTGTACATATTCAGAGTTTTCATTGGCAGTGCCAGTTTCTAGCCAAATAGACTTG 60  
QY 1297 TCTGATCATAAATGTAAAGCCTGTAGCTTGGCCAGCTGCTGCTGGCCCCCCTTCTGCG 1356  
Db 61 TCTGATCATAAATGTAAAGCCTGTAGCTTGGCCAGCTGCTGCTGGCCCCCCTTCTGCG 120  
QY 1357 TCCTCGAGTTGCT-GGACAAGCTGCTGACGTGCTCAGTTCTGCTTGTGAATACCTCCAT 1415  
Db 121 TCCTCGAGTTGCTGGGACAAGCTGCTCAGTTCTGCTTGTGAATACCTCCAT 180  
QY 1416 CGATGGGGAATCACTTCTTGGAAAAATTTCTATGCTCAAGCTGAAATTTCTCTAAATTT 1475  
Db 181 CGATGGGGAATCACTTCTTGGAAAAATTTCTATGCTCAAGCTGAAATTTCTCTAAATTT 240  
QY 1476 TTCTCATCACTTCCCGAGGAGCCAGAGACAGAGCAGTAGTTTAAATTTTCAGGAACAG 1535  
Db 241 TTCTCATCACTTCCCGAGGAGCCAGAGACAGAGCAGTAGTTTAAATTTTCAGGAACAG 300  
QY 1536 GTGATCCACTCTGTAAACAGCAGGTAAATTTCACTCAAGCCCATGTTGGGAATGATCTA 1595  
Db 301 GTGATCCACTCTGTAAACAGCAGGTAAATTTCACTCAAGCCCATGTTGGGAATGATCTA 360  
QY 1596 TATCTCTACTTCCAGGAGCAGTTTGGCCCTTCCCAAAATCCCTCCAGGCCAGAACTGACTGG 1655  
Db 361 TATCTCTACTTCCAGGAGCAGTTTGGCCCTTCCCAAAATCCCTCCAGGCCAGAACTGACTGG 420  
QY 1656 AGCAGGATGGCCACAGGCTTCAGAGTAGGGGAAGCCTGGAGCCCTCCAGCCCT 1715  
Db 421 AGCAGGATGGCCACAGGCTTCAGAGTAGGGGAAGCCTGGAGCCCTCCAGCCCT 480  
QY 1716 GGGACAATTTGAGAAATTTCCCTCAGGCCAGTTCTGTCATGGATGCTGCTCGAGAATAA 1775  
Db 481 GGGACAATTTGAGAAATTTCCCTCAGGCCAGTTCTGTCATGGATGCTGCTCGAGAATAA 540  
QY 1776 CTTGCTGTCCCGGTGTCACTGCTTCCATCTCCAGGCCACCCAGCCCTTGCACCTCA 1835  
Db 541 CTTGCTGTCCCGGTGTCACTGCTTCCATCTCCAGGCCACCCAGCCCTTGCACCTCA 600  
QY 1836 CATGCCCTCCCATGGATTGGGGCTCCAGGCCCTCCAGCCCTTATGTCAACCTC-ACITCT 1895  
Db 601 CATGCCCTCCCATGGATTGGGGCTCCAGGCCCTCCAGCCCTTATGTCAACCTC-ACITCT 660  
QY 1896 TGTTCAAAATCAGAAAAAGAAAGATTTGAAGACCCCAAGCTTGTGCAATAATCTGCTG 1955  
Db 661 TGTTCAAAATCAGAAAAAGAAAGATTTGAAGACCCCAAGCTTGTGCAATAATCTGCTG 720  
QY 1956 TGTGGAAGCAGCGGGGGAAGACCTTAGAACCTTTCCCGAGCAGTTGGTTTTCACCATGA 2015  
Db 721 TGTGGAAGCAGCGGGGGAAGACCTTAGAACCTTTCCCGAGCAGTTGGTTTTCACCATGA 780

QY 2016 TATTTATGAGTAATTTATTTGATATGTACATCTCTTATTTCTTACATTTATGCCC 2075  
|||||  
Db 781 TATTTATGAGTAATTTATTTGATATGTACATCTCTTATTTCTTACATTTATGCCC 840  
|||||  
QY 2076 CCAATATATATATGATGTAAGTGAGGTTTGTATATATAAATGAGTTTGT 2135  
|||||  
Db 841 CCAATATATATATGATGTAAGTGAGGTTTGTATATATAAATGAGTTTGT 900  
|||||  
QY 2136 GT 2137  
||  
Db 901 GT 902  
|||||  
RESULT 14  
ABL91719  
ID ABL91719 standard; DNA; 651 BP.  
XX  
AC ABL91719;  
XX  
DT 28-MAY-2002 (first entry)  
XX  
DE Human polynucleotide SEQ ID NO 62.  
XX  
KW Human; HIV; HCV; gene expression; oligoribonucleotide; tumour; pathogen;  
KW Plasmodium; virus; viroid; cytokine; prion; antisense oligonucleotide;  
KW cytostatic; virucide; protozoacide; antibacterial; ds.  
XX  
OS Homo sapiens.  
XX  
PN DE10100586-C1.  
XX  
PD 11-APR-2002.  
XX  
PF 09-JAN-2001; 2001DE-1000586.  
XX  
PR 09-JAN-2001; 2001DE-1000586.  
XX  
PA (RIBO-) RIBOPHARMA AG.  
XX  
PI Kreutzer R, Limmer S, Rost S, Hadwiger P;  
XX  
XX WPI; 2002-270454/32.  
XX  
PS Claim 13; Page 46-47; 104pp; German.  
XX  
CC The invention relates to a method for inhibiting expression of a target  
CC gene (ABL91658-ABL91797) in a cell by introducing at least one  
CC oligoribonucleotide that has a double-stranded structure consisting of at  
CC most 49 sequential nucleotide pairs, with at least part of one strand  
CC complementary with the target gene and has at least one end a  
CC single-stranded segment of 1-4 nt. The method provides  
CC oligoribonucleotides for antisense inhibition of gene expression useful  
CC e.g. for treating tumours but the oligoribonucleotides may also be  
CC directed against genes present in pathogens (e.g. Plasmodium or  
CC viruses/viroids, pathogenic on humans, animals or plants) or against  
CC cytokine, id, developmental or prion genes. The method provides more  
CC effective inhibition of gene expression than use of known  
CC oligonucleotides, probably because the unpaired overhang increases  
CC stability and thus intracellular concentration.  
XX  
SQ Sequence 651 BP; 109 A; 212 C; 209 G; 121 T; 0 other;  
Query Match 30.5%; Score 651; DB 24; Length 651;  
Best Local Similarity 100.0%; Pred. No. 8.4e-137;  
Matches 651; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 464 ATCGGAGCGGTGTGTGTCACGTATGATCTCGCGCGCTCTGGCTGCCCGTG 523  
|||||

Db 1 ATCCGAGCGGGTGTGTGTGTGTCCACGATCGATCGCCGGCTCTGGCTGTGCGTG 60  
QY 524 GCCGGCGCCCTCGCCCTTCTCGGACGCGGGGCCACGTCGACGTACGCTGCGCGGAC 583  
|||||  
Db 61 GCCGGCGCCCTCGCCCTTCTCGGACGCGGGGCCACGTCGACGTACGCTGCGCGGAC 120  
|||||  
QY 584 CCATCCGCTCGGCGCACCTGTACGCTCGGCGCCCGACGCGGCTCTCCAGCTGCTTCCTG 643  
|||||  
Db 121 CCATCCGCTCGGCGCACCTGTACGCTCGGCGCCCGACGCGGCTCTCCAGCTGCTTCCTG 180  
|||||  
QY 644 CCATCCGCTCGGCGCACGCTGTGTGACTCGGCGGGGGCGAGCGCGCACAGTTTCCTG 703  
|||||  
Db 181 CGCATCCGTCGCGCACGCTGTGTGACTCGGCGGGGGCGAGCGCGCACAGTTTCCTG 240  
|||||  
QY 704 GAGATCAAGSCAGTCGCTCTCGGACCGTGCATCAAGGGGTGCACAGCGTGCCTAC 763  
|||||  
Db 241 GAGATCAAGSCAGTCGCTCTCGGACCGTGCCTCAAGGGGTGCACAGCGTGCCTAC 300  
|||||  
QY 764 CTCTGCATGGCGCCGACGCAAGATGCGAGGGCTCTTTCAGTACTCGGAGGAAGACTGT 823  
|||||  
Db 301 CTCTGCATGGCGCCGACGCAAGATGCGAGGGCTCTTTCAGTACTCGGAGGAAGACTGT 360  
|||||  
QY 824 GCTTTCGAGGAGAGATCCGCCACAGATGCTACATGTGTACCGATCCGAGAGACCCG 883  
|||||  
Db 361 GCTTTCGAGGAGAGATCCGCCACAGATGCTACATGTGTACCGATCCGAGAGACCCG 420  
|||||  
QY 884 CTCGCGGTCTCCCTGAGCAGTGCCTCAACAGCGCGCAGCTGTACAAGAACACAGGCTTCTT 943  
|||||  
Db 421 CTCGCGGTCTCCCTGAGCAGTGCCTCAACAGCGCGCAGCTGTACAAGAACACAGGCTTCTT 480  
|||||  
QY 944 CCACCTCTCTATTTCTGCGCCATGCTGCGCATGCTGCCAGAGAGGCTGAGGATCTCAG 1003  
|||||  
Db 481 CCACCTCTCTATTTCTGCGCCATGCTGCGCATGCTGCCAGAGAGGCTGAGGATCTCAG 540  
|||||  
QY 1004 GCCCAGTGGAAATCGACATGTTCTCTTCCGCGCTGGAGACCGACAGCATGGAACATTT 1063  
|||||  
Db 541 GGCCACTTGGAAATCGACATGTTCTCTTCCGCGCTGGAGACCGACAGCATGGAACATTT 600  
|||||  
QY 1064 GGGCTGTTCACCGACTGGAGGCGGTGAGGAGTCCCGAGCTTTGAGAAAGTAA 1114  
|||||  
Db 601 GGGCTGTTCACCGACTGGAGGCGGTGAGGAGTCCCGAGCTTTGAGAAAGTAA 651  
|||||  
RESULT 15  
AAV72462  
ID AAV72462 standard; cDNA; 371 BP.  
XX  
AC AAV72462;  
XX  
DT 05-AUG-1999 (first entry)  
XX  
DE Human PRO533 clone DNA47412 DNA.  
XX  
KW PRO533; FGF-19; fibroblast growth factor; human; diagnosis; treatment;  
KW tumour; neoplastic cell growth; cell proliferation; tumorigenesis; cancer;  
KW autocrine signalling; ds.  
XX  
OS Homo sapiens.  
XX  
PN WO9927100-Al.  
XX  
PD 03-JUN-1999.  
XX  
PR 25-NOV-1998; 98WO-US25190.  
XX  
PR 21-SEP-1998; 98US-0158432.  
XX  
PR 25-NOV-1997; 97US-0066840.  
XX  
PA (GETH ) GENENTECH INC.  
XX  
PI Borstein D, Goddard A, Gurney AL, Hillan KJ, Lawrence DA;  
PI Roy MA;  
XX

DR WPI: 1999-347718/29.

XX Nucleic acid encoding fibroblast growth factor - 19, useful for the

PT diagnosis, prevention and treatment of cancers

XX Disclosure; Fig 5; 88pp; English.

PS

XX This invention describes a novel human fibroblast growth factor, PRO533, also known as fibroblast growth factor-19 (FGF-19). The nucleic acids, methods and PRO533 polypeptides disclosed may be used in the diagnosis, treatment of tumours and/or conditions characterized by modulation of PRO533 expression, or in the preparation of compositions for such therapies. These compositions and methods may be used in the diagnosis and treatment of neoplastic cell growth and proliferation in mammals (especially humans). The invention is based on the identification of genes that are amplified in the genome of tumour cells. Such gene amplification is expected to be associated with the over expression of the gene product and contribute to tumourgenesis and/or autocrine signalling. Accordingly, the proteins encoded by the amplified genes are believed to be useful targets for the diagnosis and/or treatment of certain cancers and may act as predictors of the prognosis for tumour treatments.

XX

Sequence 371 BP; 76 A; 112 C; 106 G; 77 T; 0 other;

Query Match 16.3%; Score 349; DB 20; Length 371;

Best Local Similarity 99.5%; Pred. No. 6.5e-69;

Matches 371; Conservative 0; Mismatches 0; Indels 2; Gaps 2;

QY 827 TTCGAGGAGGATCCGCCAGATGGCTACAATGTGTACCGATCCGAGAGCACCCTC 886

DB 1 TTCGAGGAGGATCCGCCAGATGGCTACAATGTGTACCGATCCGAGAGCACCCTC 60

QY 887 CCGGTCTCCCTGAGCAGTGCACAAACAGCGCAGCTGTACAAGAACAGAGCTTCTTCCA 946

DB 61 CCGGTCTCCCTGAGCAGTGCACAAACAGCGCAG-TGTACAGAACAGAGCTTCTTCCA 119

QY 947 CTCTCTCATTTCTGCCCCATGCTGCCCATGTGCCAGAGGCGCTGAGGACCTCAGGGGC 1006

DB 120 CTCTCTCATTTCTGCCCCATGCTGCCCATGTGCCAGAGGCGCTGAGGACCTCAGGGGC 179

QY 1007 CACTTGGAAATCTGACATGTTCTCTCGCCCTGGAGACCGACAGCATGGACCCATTGGG 1066

DB 180 CACTTGGAAATCTGACATGTTCTCTCGCCCTGGAGACCGACAGCATGGACCCATTGGG 239

QY 1067 CTTGTACCGGACTGGAGCGCGTGAGAGTCCCGAGCTTTGAGAAGTAACCTGAGACCATGC 1126

DB 240 CTTGTACCGGACTGGAGCGCGTGAGAGTCCCGAGCTTTGAGAAGTAACCTGAGACCATGC 299

QY 1127 CCGGGCTCTTCACTGCTGCCAGGGGCTGTGGTACCTGACGCGTGGGGGACGCTGCTTCTA 1186

DB 300 CCGGGCTCTTCACTGCTGCCAGGGG-TGTGGTACCTGACGCGTGGGGGACGCTGCTTCTA 358

QY 1187 CAAGAACAGTCCT 1199

DB 359 CAAGAACAGTCCT 371

Search completed: May 11, 2003, 02:28:33

Job time : 509 secs

GenCore version 5.1.4\_p5\_4578  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: May 11, 2003, 02:17:49 : Search time 3073 Seconds  
(without alignments)  
11262.530 Million cell updates/sec

Title: US-09-924-647-1

Perfect score: 2137

Sequence: 1 gctccagcgaagaacctcg.....ttaaaatggagtttcttgt 2137

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 16154066 seqs, 8097743376 residues

Total number of hits satisfying chosen parameters: 32308132

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

EST:\*

- 1: em\_estba:\*
- 2: em\_esthum:\*
- 3: em\_estin:\*
- 4: em\_estmu:\*
- 5: em\_estov:\*
- 6: em\_estpl:\*
- 7: em\_estro:\*
- 8: em\_hic:\*
- 9: gb\_est1:\*
- 10: gb\_est2:\*
- 11: gb\_hic:\*
- 12: gb\_est3:\*
- 13: gb\_est4:\*
- 14: gb\_est5:\*
- 15: em\_estfun:\*
- 16: em\_estom:\*
- 17: gb\_gss:\*
- 18: em\_gss\_hum:\*
- 19: em\_gss\_inv:\*
- 20: em\_gss\_pln:\*
- 21: em\_gss\_vrt:\*
- 22: em\_gss\_fun:\*
- 23: em\_gss\_mam:\*
- 24: em\_gss\_mus:\*
- 25: em\_gss\_Other:\*
- 26: em\_gss\_pro:\*
- 27: em\_gss\_rod:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
c 1	881.8	41.3	961	9	AL563740
2	815.4	38.2	888	13	B1919047
3	713.6	33.4	835	12	BE889616
4	662.8	31.0	741	12	BE869144
5	629.4	29.5	708	12	BG328684
6	536	25.1	980	9	AL530420

c 7	467	21.9	472	9	A1076490
c 8	461.2	21.6	467	9	A1654914
c 9	442.4	20.7	752	17	B03767
c 10	379.4	17.8	398	9	A1265931
c 11	373.6	17.5	410	9	BE089911
c 12	344.4	16.1	370	9	AA220594
c 13	286.8	13.4	353	9	AA218987
c 14	266.4	12.5	291	9	AA232080
c 15	217.6	10.2	1807	11	AK017829
16	206.2	9.6	600	12	BG808427
17	205.8	9.6	767	13	B1132156
18	204.6	9.6	701	14	BM937058
19	203.8	9.5	231	9	AA232079
20	203.8	9.5	600	12	BG805332
21	203.8	9.5	600	13	B1986868
22	203.8	9.5	600	13	B1590207
23	203.8	9.5	600	13	B1930551
24	203.6	9.5	600	13	B1985177
25	203.4	9.5	600	12	BG800546
26	202.8	9.5	600	12	BG806245
27	202.2	9.5	600	12	BG801668
28	202.2	9.5	600	12	BG805968
29	202.2	9.5	600	12	BG807592
30	202.2	9.5	600	13	B1989396
31	202.2	9.5	600	13	B1991271
32	201.2	9.4	600	12	BG802321
33	201.2	9.4	600	12	BG806098
34	201	9.4	600	12	BG808484
35	200.8	9.4	600	12	BG808657
36	200.2	9.4	600	13	B1988130
37	199.4	9.3	600	12	BG807200
38	198.2	9.3	600	12	BG800141
39	195	9.1	600	13	B1991414
40	194.6	9.1	600	12	BG807014
41	193.6	9.1	600	12	BG800168
42	192.8	9.0	600	12	BG802427
43	189	8.8	600	12	BG806375
44	188	8.8	600	13	B1990320
45	187.8	8.8	600	12	BG801738

ALIGNMENTS

RESULT 1	AL563740/c	AL563740	961 bp	mRNA	linear	EST 16-FEB-2001
LOCUS	AL563740	LT1_NFL001_NBC4	Homo sapiens	cDNA	clone	CS0DD007YG02 3
DEFINITION	AL563740	prime, mRNA sequence.				
ACCESSION	AL563740					
VERSION	AL563740.1	GI:12913430				
KEYWORDS	EST.					
SOURCE	human.					
ORGANISM	Homo sapiens					
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;					
AUTHORS	Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.					
TITLE	Li, W.B., Gruber, C., Jessee, J., and Polayes, D.					
JOURNAL	Full-length cDNA libraries and normalization					
COMMENT	Unpublished (2001)					
CONTACT	Genoscope					
Genoscope	- Centre National de Sequencage					
BP 191	91006 EVRY cedex - France					
Email:	segref@genoscope.cns.fr, Web : www.genoscope.cns.fr.					
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	/lab_host="DH10B"					

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Db 122

CGACCATCCCAACCCGGCACTCACAGCCCCGACGGC

CCGGTCGCCGCCAGCCTC 181

Db	182	CGCACCCCATCGCCGAGCTCGCCGAGAGCCACAGAGGTGCCATCGGAGGGGT	241	
Qy	477	GTGTGTGTGTCACAGTATGATCTCGCCGGCTCTGGCTGGCGGTGGCGGCGCC	536	
Db	242	GTGTGTGTGTCACAGTATGATCTCGCCGGCTCTGGCTGGCGGTGGCGGCGCC	301	
Qy	537	TGCGCTTCTCGGACCGGGGCCCCACGTGCTACGGCTGGGGGACCCCATCCGCTGC	596	
Db	302	TGCGCTTCTCGGACCGGGGCCCCACGTGCTACGGCTGGGGGACCCCATCCGCTGC	361	
Qy	597	GGCACTGTACAGCTCGCGGCCCCAGGCTCTCCAGCTGCTTCTTGGCGATCCGTCGC	656	
Db	362	GGCACTGTACAGCTCGCGGCCCCAGGCTCTCCAGCTGCTTCTTGGCGATCCGTCGC	421	
Qy	657	ACGGCTGCTGTGACCTCGCGCGGGGCGAGCGCGCACAGTTTGTGTGGAGATCAAGCGAG	716	
Db	422	ACGGCTGCTGTGACCTCGCGCGGGGCGAGCGCGCACAGTTTGTGTGGAGATCAAGCGAG	481	
Qy	717	TGCGCTGTCGGACCGTGGCCATCAAGGGCTGCACAGCGTGGCGTACCTCTGCATGGGG	776	
Db	482	TGCGCTGTCGGACCGTGGCCATCAAGGGCTGCACAGCGTGGCGTACCTCTGCATGGGG	541	
Qy	777	CCGACGGCAAGATGCAAGGGCTGTCTCAGTACTCGGAGGAAGACTGTGTTTCGAGGAGG	836	
Db	542	CCGACGGCAAGATGCAAGGGCTGTCTCAGTACTCGGAGGAAGACTGTGTTTCGAGGAGG	601	
Qy	837	AGATCGCCCGACAGTGGCTACAATGTGTACCGATCCGAGAACACCGCTCCCGTCTGCC	896	
Db	602	AGATCGCCCGACAGTGGCTACAATGTGTACCGATCCGAGAACACCGCTCCCGTCTGCC	561	
Qy	897	TGAGCAGTGCCTAAACAGCGGAGCTGTACAAGAACAGAGGCTTTCCTTCACCTCTCTCAT	956	
Db	662	TGAGCAGTGCCTAAACAGCGGAGCTGTACAAGAACAGAGGCTTTCCTTCACCTCTCTCAT	721	
Qy	957	TGCTGCCATGTGCCATGTGCCAGAGGAGGCTCAGGACCTCAGGCGCCACTTGGAA	1016	
Db	722	TGCTGCCATGTGCCATGTGCCAGAGGAGGCTCAGGACCTCAGGCGCCACTTGGAA	780	
Qy	1017	CTGACATGTCTCTTCCGCCCTGGAGCCGACAGCATGGACCCATTGGGCTTGTCAACCG	1076	
Db	781	CTGACATGTCTCTTCCGCCCTGGAGCCGACAGCATGGA-CCATTGGGCTGTGCA-CG	838	
Qy	1077	GACTGAGCGCGTGGAGGTCCAGCTTTGAGA	1109	
Db	839	GACTGAAGCCCGTG-GGAGTCCAGCTTGAAGA	870	
RESULT 3				
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LOCUS				
DEFINITION				
601512637F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:391492 5',				
mRNA sequence.				
ACCESSION				
BE889616				
VERSION				
BE889616.1 GI:10347118				
KEYWORDS				
EST.				
SOURCE				
human.				
ORGANISM				
Homo sapiens				
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
1 (bases 1 to 835)				
NIH-MGC <a href="http://mgc.nci.nih.gov/">http://mgc.nci.nih.gov/</a> .				
National Institutes of Health, Mammalian Gene Collection (MGC)				
Unpublished (1999)				
Contact: Robert Strausberg, Ph.D.				
Email: <a href="mailto:cgapbs-re@mail.nih.gov">cgapbs-re@mail.nih.gov</a>				
Tissue Procurement: ATCC				
cDNA Library Preparation: Life Technologies, Inc.				
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)				
DNA Sequencing by: Incyte Genomics, Inc.				
Clone distribution: MGC clone distribution information can be				
found through the I.M.A.G.E. Consortium/LLNL at:				
<a href="http://image.llnl.gov">http://image.llnl.gov</a>				

Plate: LLAM9735 row: i column: 09				
High quality sequence stop: 687.				
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/clone="IMAGE:391492"				
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Site_2: SalI; Cloned unidirectionally. Primer: Oligo dt.				
Average insert size 2.1 kb.				
BASE COUNT				
139 a 284 c 267 g 145 t				
ORIGIN				
Query Match				
Best Local Similarity 33.4%; Score 713.6; DB 12; Length 845;				
Matches 741; Conservative 0; Mismatches 9; Indels 2; Gaps 2;				
Qy	347	ATCTAGGGCCACACCATCCCAACCGGCACCTCACAGCCCGCAGCGCCATTCGCTGCGCC	406	
Db	1	ATCTAGGGCCACACCATCCCAACCGGCACCTCACAGCCCGCAGCGCCATTCGCTGCGCC	60	
Qy	407	GCCAGCCTCCCGCACCCCATCGCGGAGCTCGCGCGAGAGCCCGAGGAGGTGTCATG	466	
Db	61	GCCAGCCTCCCGCACCCCATCGCGGAGCTCGCGCGAGAGCCCGAGGAGGTGTCATG	120	
Qy	467	CGGAGCGGTGTGTGGTGTCCACGTATGATCTCGCGCGGCTCTGCTGCGCGTGGCC	526	
Db	121	CGGAGCGGTGTGTGGTGTCCACGTATGATCTCGCGCGGCTCTGCTGCGCGTGGCC	180	
Qy	527	GGGCGCCCTCCGCTTCTCGGACGGCGGCGCCACGTGCTACTACGGCTGGGCGCACCCC	586	
Db	181	GGGCGCCCTCCGCTTCTCGGACGGCGGCGCCACGTGCTACTACGGCTGGGCGCACCCC	240	
Qy	587	ATCGCGCTCGGGACCTGTACACCTCGCGCGCCCGCAGGGGTCTGTCAGCTGCTTCTGCGC	646	
Db	241	ATCGCGCTCGGGACCTGTACACCTCGCGCGCCCGCAGGGGTCTGTCAGCTGCTTCTGCGC	300	
Qy	647	ATCCGTGCGCGAGCGGTCTGTGGACTCGCGCGGGGCGCAGAGCGCGCACAGTTCGCTGGAG	706	
Db	301	ATCCGTGCGCGAGCGGTCTGTGGACTCGCGCGGGGCGCAGAGCGCGCACAGTTCGCTGGAG	360	
Qy	707	ATCAAGGCAGTCTGCTGCGGACCGCTGGGCTATCAAGGGCTGTCACAGCGTGGCTTACCTC	765	
Db	361	ATCAAGGCAGTCTGCTGCGGACCGCTGGGCTATCAAGGGCTGTCACAGCGTGGCTTACCTC	420	
Qy	767	TGCTAGGGCGCGACGGCAAGATGCGAGGGCTGCTTCACTTCGAGGAAGATCTGTGT	826	
Db	421	TGCTAGGGCGCGCGACGGCAAGATGCGAGGGCTGCTTCACTTCGAGGAAGATCTGTGT	480	
Qy	827	TTCGAGGAGGAGATCGCGCCAGATGCTACAATGCTTACCGATCCGAGAGCATTCCTC	886	
Db	481	TTCGAGGAGGAGATCGCGCCAGATGCTACAATGCTTACCGATCCGAGAGCATTCCTC	540	
Qy	887	CCGGTCTCCCTGAGCAGTGCCTCAACAGCGCGAGCTGTACAAGAACAGAGCTTCTTCTTCCA	945	
Db	541	CCGGTCTCCCTGAGCAGTGCCTCAACAGCGCGAGCTGTACAAGAACAGAGCTTCTTCTTCCA	600	
Qy	947	CTCTCTCATTTCTGCCCCATGTGCCCATGTCCTCCAGAGAGCCTGAGAGCTTACGGGC	1006	
Db	601	CTCTCTCATTTCTGCCCCATGTCACCATGGTCCCAAGAGGAGCTGAGAGCTTACGGGC	660	
Qy	1007	CACCTTGGAAATTCACATGTTCTTCTCGCCCTTGGAGACCGACAGCATGACCATTTGGG	1066	
Db	661	CACCTTGGAAATTCACATGTTCTTCTCG-CCCTGGAGACCGA-AGCATTTGGAGCTGTGGG	718	
Qy	1067	CTTTGTACCCGAGCTGGAGGCGCTGTAGGAGTCC	1098	
Db	719	CTTTGTACCCGAGCTGGAGGCGCGAAGGAGTCC	750	

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BE869144      741 bp      mRNA      linear      EST 20-OCT-2000
LOCUS         601445130F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3849343 5',
DEFINITION   mRNA sequence.
ACCESSION    BE869144
VERSION      BE869144.1 GI:10317920
KEYWORDS     EST.
SOURCE       human.
ORGANISM     Homo sapiens
              Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
              Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
              1 (bases 1 to 741)
REFERENCE    NIH-MGC http://mgc.nci.nih.gov/.
AUTHORS     National Institutes of Health, Mammalian Gene Collection (MGC)
TITLE       Unpublished (1999)
JOURNAL
COMMENT     Contact: Robert Strausberg, Ph.D.
              Email: cgapbs-r@mail.nih.gov
              Tissue Procurement: ATCC
              cDNA Library Preparation: Life Technologies, Inc.
              cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
              DNA Sequencing by: Incyte Genomics, Inc.
              Clone distribution: MGC clone distribution information can be
              found through the I.M.A.G.E. Consortium/LLNL at:
              http://image.llnl.gov
              Plate: LHAM9566 row: k column: 08
              High quality sequence stop: 696.
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              Average insert size 1.8 kb. Library constructed by Life
              Technologies."
BASE COUNT   122 a 259 c 235 g 125 t
ORIGIN
Query Match 31.0%; Score 662.8; DB 12; Length 741;
Best Local Similarity 97.5%; Pred. No. 1.9e-136;
Matches 721; Conservative 0; Mismatches 12; Indels 7; Gaps 5;
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DB 1 CCAGGACCATCCCAACCGGCACTACAGCCCGCAGCGCATCCGTCGCCGCCAGCC 60
QY 415 TCCGCGACCCCATCGCGGAGCTGCGCGAGAGCCCGAGAGCCCGCATGCGGAGCGG 474
DB 61 TCCGCGACCCCATCGCGGAGCTGCGCGAGAGCCCGAGAGCCCGCATGCGGAGCGG 120
QY 475 GTGTGTGTGTCTCCAGCTATGATCTCTGGCGGCGCTCTGGCTGCGCGCGCGCC 534
DB 121 GTGTGTGTGTCTCCAGCTATGATCTCTGGCGGCGCTCTGGCTGCGCGCGCGCC 180
QY 535 CCTCGCCTTCTCGAGCGCGGCGCCCGACGTGACGTGCGGCGCGACCCCATCCGCGCT 594
DB 181 CCTCGCCTTCTCGAGCGCGGCGCCCGACGTGACGTGCGGCGCGACCCCATCCGCGCT 240
QY 595 CGGCGACCTGTACACCTCCGCGCGCCCGACGGGCTCTCCAGCTGCTTCTCGGCGATCCGCTGC 654
DB 241 CGGCGACCTGTACACCTCCGCGCGCCCGACGGGCTCTCCAGCTGCTTCTCGGCGATCCGCTGC 300
QY 655 CGAGCGGCTCTGTGACTCGCGCGGCGCCAGAGCGCGCACAGTTTGTGTGAGATCAAGGC 714
DB 301 CGAGCGGCTCTGTGACTCGCGCGGCGCCAGAGCGCGCACAGTTTGTGTGAGATCAAGGC 360
QY 715 AGTCGCTCTGCGGACCGGTGGCCATCAAGGGCGTGACAGCGCTGCGGTACCTTCTGCATGGG 774
DB 361 AGTCGCTCTGCGGACCGGTGGCCATCAAGGGCGTGACAGCGCTGCGGTACCTTCTGCATGGG 420
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QY 775 CGCGACGCGCAAGATGACGAGGGGCTGCTTCACTACTCGAGGAGAGACTGTGCTTTTCGAGGA 834
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QY 835 GGAGATCCGCCCGCAGATGGCTACAATGTGTACCGATCCGAGAAGACCGCCTCCCGGCTCTC 894
DB 481 GGAGATCCGCCCGCAGATGGCTACAATGTGTACCGATCCGAGAAGACCGCCTCCCGGCTCTC 540
QY 895 CCTGAGCAGTGCACAAACAGCGGCGAGC-TGTACAAGAAGACAGAGGCTTTCTTCCACTCTCTC 953
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DB 601 ATTTCTGCCCATGCTGCCCATGCTCCAGAGGAGCCTGAGGAGCCTCAGGGG-CACTTGG 657
QY 1014 AATCTGACATGTTCTCTTCGCCCTCGAGACCGACACATGAGCCCATTTGGGCTTGTCA 1073
DB 658 AATCTGACATGTTCTCTTCGCCCT--TGGAGACGACAGCATGGACCATTTGGGCTTGTAA 715
QY 1074 CCGACTGGAGGCGCTGAGGAGTCCC 1099
DB 716 CCGACTGGAGG-CGTGAGGAGTCCC 740
RESULT 5
LOCUS         BG328684
DEFINITION   602427957F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:4547223 5',
              mRNA sequence.
ACCESSION    BG328684
VERSION      BG328684.1 GI:13135122
KEYWORDS     EST.
SOURCE       human.
ORGANISM     Homo sapiens
              Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
              Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
              1 (bases 1 to 708)
REFERENCE    NIH-MGC http://mgc.nci.nih.gov/.
AUTHORS     National Institutes of Health, Mammalian Gene Collection (MGC)
TITLE       Unpublished (1999)
JOURNAL
COMMENT     Contact: Robert Strausberg, Ph.D.
              Email: cgapbs-r@mail.nih.gov
              Tissue Procurement: ATCC
              cDNA Library Preparation: Ling Hong/Rubin Laboratory
              cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
              DNA Sequencing by: NIH Intramural Sequencing Center
              Clone distribution: MGC clone distribution information can be
              found through the I.M.A.G.E. Consortium/LLNL at:
              http://image.llnl.gov
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              /note="Organ: colon; Vector: pOTB7; Site_1: XhoI; Site_2:
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              insert size 1.8kb. Library constructed by Ling Hong in
              the laboratory of Gerald M. Rubin (University of
              California, Berkeley) using ZAP-cDNA synthesis kit
              (Stratagene) and Superscript II RT (Life Technologies)"
BASE COUNT   115 a 247 c 227 g 119 t
Query Match 29.5%; Score 629.4; DB 12; Length 708;
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RESULT 7
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LOCUS
DEFINITION
O228c05.x1 Soares total_fetus_Nb2HF8_9w Homo sapiens cDNA clone
IMAGE:1676648 3', mRNA sequence.
ACCESSION
AI076490
VERSION
AI076490.1 GI:3405668
KEYWORDS
EST.
SOURCE
human.
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 (bases 1 to 472)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
AUTHORS
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
TITLE
Tumor Gene Index
JOURNAL
Unpublished (1997)
COMMENT
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Insert Length: 1485 Std Error: 0.00
Seq primer: -40ml3 fwd. ET from Amersham
High quality sequence stop: 448.
FEATURES
Location/Qualifiers
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/dev_stage="8-9 weeks"
/lab_host="DH10B"
/notes="Vector: pT7T3D-Pac (Pharmacia) with a modified
polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA
was prepared from mRNA obtained from pooled 8-9 week
(total) fetus material with a Not I - oligo(dT) primer [5'
TGTTACCAATGAATGGAGCGGCGCTTAATTTTTTTTTTTTTTTT 3'].
Double-stranded cDNA was ligated to Eco RI adaptors
(Pharmacia), digested with Not I and cloned into the Not I
and Eco RI sites of the modified pT7T3 vector. Library
went through one round of normalization, and was
constructed by Bento Soares and M. Fatima Bonaldo."
BASE COUNT 139 a 95 c 122 g 116 t
ORIGIN
Query Match 21.9%; Score 467; DB 9; Length 472;
Best Local Similarity 100.0%; Pred. No. 4.8e-93;
Matches 467; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1671 CCAGGCTTCAGGAGTAGGGAGCCTCGAGCCCTCCAGCCCTGGGACAACTTGAGAA 1730
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QY 1731 TTCCCTGAGGCGAGTCTGTCTATGATGCTGTCTGAGAACTAATCTGCTGCCCGTG 1790
DB 412 TTCCCTGAGGCGAGTCTGTCTATGATGCTGTCTGAGAACTAATCTGCTGCCCGTG 353
QY 1791 TCACCTGCTTCATCTCCAGCCCAAGCCCTGTGCTGAGAACTAATCTGCTGCCCGTG 1850
DB 352 TCACCTGCTTCATCTCCAGCCCAAGCCCTGTGCTGAGAACTAATCTGCTGCCCGTG 293
QY 1851 ATTGGGCGCTCCAGGCGCCCGACCTTATGTCAACCTGCACTCTTGTTCAGAAATCAGG 1910
DB 292 ATTGGGCGCTCCAGGCGCCCGACCTTATGTCAACCTGCACTCTTGTTCAGAAATCAGG 233
QY 1911 AAAAGAAAGATTGAGAGCCCAAGTCTTGTCAATCACTTGTCTGTGGAAGCAGCGGG 1970
DB 232 AAAAGAAAGATTGAGAGCCCAAGTCTTGTCAATCACTTGTCTGTGGAAGCAGCGGG 173
QY 1971 GGAAGACCTAGAACCCCTTCCCGAGCACTTGGTGTTCACATCATATTTATGAGTAATT 2030
DB 172 GGAAGACCTAGAACCCCTTCCCGAGCACTTGGTGTTCACATCATATTTATGAGTAATT 113

QY 2031 TATTTTGATATGACATCTCTTATTTTCTTACATTTATTTATGCCCAAAATTAATTTAT 2090
DB 112 TATTTTGATATGACATCTCTTATTTTCTTACATTTATTTATGCCCAAAATTAATTTAT 53
QY 2091 GTATGTAAGTGAAGTTTGTGTTTGTATATTAATAATGGAGTTTGTGTTGT 2137
DB 52 GTATGTAAGTGAAGTTTGTGTTTGTATATTAATAATGGAGTTTGTGTTGT 6

RESULT 8
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LOCUS
DEFINITION
wb52d05.x1 NCI-CGAP_GC6 Homo sapiens cDNA clone IMAGE:2309289 3',
mRNA sequence.
ACCESSION
AI654914
VERSION
AI654914.1 GI:4738893
KEYWORDS
EST.
SOURCE
human.
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 (bases 1 to 467)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
AUTHORS
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
TITLE
Tumor Gene Index
JOURNAL
Unpublished (1997)
COMMENT
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael
R. Emmert-Buck, M.D., Ph.D.
cDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima
Bonaldo, Ph.D.
cDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
Insert Length: 1230 Std Error: 0.00
Seq primer: -40UP from Gibco
High quality sequence stop: 456.
FEATURES
Location/Qualifiers
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/lab_host="DH10B"
/notes="Vector: pT7T3D-Pac (Pharmacia) with a modified
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from the normalized library NCI-CGAP_GC4 was prepared, and
ss circles were made in vitro. Following HAP purification,
this DNA was used as tracer in a subtractive hybridization
reaction. The driver was PCR-amplified cDNAs from a pool
of 5,000 clones made from the same library (cloneIDs
1257096-1258631, 1469064-1470983, and 1475592-1476743).
Subtraction by Bento Soares and M. Fatima Bonaldo."
BASE COUNT 139 a 93 c 120 g 115 t
ORIGIN
Query Match 21.6%; Score 461.2; DB 9; Length 467;
Best Local Similarity 99.4%; Pred. No. 9.3e-92;
Matches 463; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1672 CAGGCTTCAGGAGTAGGGAGCCTCGAGCCCTCCAGCCCTGGGACAACTTGACAAT 1731
DB 466 CAGGCTTCAGGAGTAGGGAGCCTCGAGCCCTCCAGCCCTGGGACAACTTGACAAT 407
QY 1732 TCCCGCTGAGGCCAGTTCTGTCTCATGATGCTGCTCGAGAACTAATCTGCTGCCCGTGT 1791
DB 406 TCCCGCTGAGGCCAGTTCTGTCTCATGATGCTGCTCGAGAACTAATCTGCTGCCCGTGT 347

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QY 1792 CACCTGCTTCCATCTCCAGCCACACAGCCCTCTGCCACCTCACATGCATCCCATGGA 1851
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Db 346 CACCTGCTTCCATCTCCAGCCACACAGCCCTCTGCCACCTCACATGCATCCCATGGA 287
|||||
QY 1852 TTGGGCGCTCCAGGCGCCCGCCACCTTATGTCACACTGCACTTCTGTTCAAAAATCAGGA 1911
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Db 286 TTGGGCGCTCCAGGCGCCCGCCACCTTATGTCACACTGCACTTCTGTTCAAAAATCAGGA 227
|||||
QY 1912 AAAGAAAAGATTGAAGACCCCAAGCTTGTCAATAACTTGTGTGTGGAAGACAGCGGG 1971
|||||
Db 226 AAAGAAAAGATTGAAGACCCCAAGCTTGTCAATAACTTGTGTGTGGAAGACAGCGGG 167
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QY 1972 GAAGACCTAGAACCCCTTCCAGCAGCACTTGGTTTCCACATGATATTTATGAGTAATTT 2031
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Db 166 GAAGACCTAGAACCCCTTCCAGCAGCACTTGGTTTCCACATGATATTTATGAGTAATTT 107
|||||
QY 2032 ATTTTGATATGATCTCTATTTTCTTACATATTTATGCCCCCAAAATATATTTATG 2091
|||||
Db 106 ATTTTGATATGATCTCTATTTTCTTACATATTTATGCCCCCAAAATATATTTATG 47
|||||
QY 2092 TATGTAAGTGAGGTTTGTGTTGTATATAAAATGGATTTGTTTGT 2137
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RESULT 9
B03767/c
LOCUS
DEFINITION
CSRL-186H12-u CSRL flow sorted Chromosome 11 specific cosmid Homo
sapiens genomic clone CSRL-186H12, DNA sequence.
ACCESSION
B03767
VERSION
B03767.1 GI:1413045
KEYWORDS
GSS.
SOURCE
human.
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 752)
Evans,G.A., Burbee,D., Davies,C., Hahner,L., Oliver,T., Gilbert,M.,
Jones,D., Ward,T., Gillilan,E., Schaeffmann,J., Probst,S., Harris
,J., Deford,J., McFarland,J., Burzinski,K., Khan,M., Kupfer,K. and
Garner,H.R.
Genomic Sequence Sampled Map of Chromosome 11
Unpublished (1996)
Contact: Evans GA, Shane Probst
McDermott Center for Human Growth and Development
University of Texas Southwestern Medical Center At Dallas
5323 Harry Hines Blvd, Dallas TX 75235-8591
Tel: 214-648-1600
Fax: 214-648-1666
Email: ge Evans@utsw.swmed.edu, shane@mcdermott.swmed.edu
PCR PRIMERS
FORWARD: CAGTTACTTCTCAAAAGCTGG
BACKWARD: CTTTTTTTCAGCTTTCAG
Seq primer: T7
Class: cosmid ends
High quality sequence stop: 752.
Location/Qualifiers
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/db_xref="taxon:9606"
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/cosmid="CSRL flow sorted Chromosome 11 specific
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/Note="Vector: sCos-1; Human Chromosome 11 specific cosmid
library prepared from flow sorted human Chromosome 11
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somatic cell hybrid, J1"
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BASE COUNT 187 a 200 c 161 g 173 t 31 others  
ORIGIN

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Query Match 20.7%; Score 442.4; DB 17; Length 72;
Best Local Similarity 97.0%; Pred. No. 1.4e-87;
Matches 446; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 826 TTTTCAGGAGGAGATCGGCCAGATCGCTACAAATGTTACCGATCCGAGAAATATCCCT 885
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Db 469 TTTTNGAGGAGGAGATCGGCCAGGAGNTACAAATGTTACNGATCCGAGAGAAATGCTTT 410
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QY 886 CCGGGTCTCCCTCAGCAGTGCCTCAAAACAGCGGAGCTGTACAAGAACAGAGGCTTTCTTCC 945
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Db 409 CCGGGTCTCCCTCAGCAGTGCCTCAAAACAGCGGAGCTGTACAAGAACAGAGGCTTTCTTCC 350
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QY 946 ACTCTCTCATTTCTGCCCATGCTGCCATGTCCTGAGAGAGCTGTAGAGAGCTGTAGAGGG 1005
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Db 349 ACTCTCTCATTTCTGCCCATGCTGCCATGTCCTGAGAGAGCTGTAGAGAGCTGTAGAGGG 290
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QY 1006 CCACTTGGAAATCTGACATGTTCTTGGCCCTGGAGACCGACAGCATGCACTCATTTGG 1065
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Db 289 CCACTTGGAAATCTGACATGTTCTTGGCCCTGGAGACCGACAGCATGGAAGCTATTTGG 230
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QY 1066 GCTTGTCAACGGAGCTGGAGGCGGTGAGAGCTGCCAGCTTTTGAGAAGTAACAGAGCCATG 1125
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Db 229 GCTTGTCAACGGAGCTGGAGGCGGTGAGAGCTGCCAGCTTTTGAGAAGTAACAGAGCCATG 170
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QY 1126 CCGGGCGCTCTTCACTGCTGCCAGGGCTGTGGTACCTGCGAGCTGGGGAGCTGCTTCT 1185
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Db 169 CCGGGCGCTCTTCACTGCTGCCAGGGCTGTGGTACCTGCGAGCTGGGGAGCTGCTTCT 110
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QY 1186 ACAAGAACAGCTCTGAGTCCAGCTTGTGTTAGCTTTAGGAAGAAACATCTAGAAGTGT 1245
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Db 49 ACATATTTTCAGAGTTTTCATTGGCAGTGCCAGTTTTCNAAC 10
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RESULT 10
A1265931/c
LOCUS
DEFINITION
A1265931
ACCESSION
A1265931
VERSION
A1265931.1 GI:3884089
KEYWORDS
EST.
SOURCE
human.
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 398)
NCI-CGAP http://www.ncbi.nlm.nih.gov/hicogap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs@mail.nih.gov
This clone is available royalty-free through LILNI; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Insert length: 1460 Std Error: 0.00
Seq primer: -400P from gibco
High quality sequence stop: 395.
Location/Qualifiers
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/db_xref="taxon:9606"
/clone="IMAGE:1938662"
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/dev_stage="8-9 weeks"
/lab_host="DH10B"
/Note="Vector: pT73D-Pac (Pharmacia) with a modified
polylinker; Site_1: Not 1; Site_2: Eco RI; 1st strand cDNA
was prepared from mRNA obtained from pooled 8-9 week
(total) fetus material with a Not I - oligo(dT) primer [5'
```

TGTTACAACTCTGAAGTCGGAGCGCGCTTAATTTTTTTTTTTTTTTTTTTT 3']. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT73 vector. Library went through one round of normalization, and was constructed by Bento Soares and M. Fatima Bonaldo. "

BASE COUNT	128 a	73 c	97 g	99 t	1 others
ORIGIN					
Query Match	17.8%	Score 379.4	DB 9	Length 398	
Best Local Similarity	99.2%	Pred. No. 1.3e-73			
Matches 391	Conservative	0	Mismatches	2	Indels 1
Gaps					1
QY	1744	CAGTCTGTCATGATGCTGTCTTGAGAAATCACTTGTCTCCGGTGTCACTTCTCTCCA	1803		
Db	398	CAGTCTGTCATGATGCTGTCTTGAGAAATCACTTGTCTCCGGTGTCACTTCTCTCCA	339		
QY	1804	TCCTCCAGCCCCACAGCCCTCTGCCACCTTCACATGCTCTCCCATGATTTGGGCGCTCC	1863		
Db	338	TCCTCCAGCCCCACAGCCCTCTGCCACCTTCACATGCTCTCCCATGATTTGGGCGCT	280		
QY	1864	AGGCCCCCCACCTTATGTCAACCTGCACCTTCTCTTCAAAAATCAGAAAAGAAAAGATT	1923		
Db	279	AGGCCCCCNCCCTTATGTCAACCTGCACCTTCTTGTTCAAAATCAGAAAAGAAAAGATT	220		
QY	1924	TGAAGACCCCAAGTCTTTGTCAATAACTTGTCTGTTGGAAGCAGCGGGGAAGACCTAGAA	1983		
Db	219	TGAAGACCCCAAGTCTTTGTCAATAACTTGTCTGTTGGAAGCAGCGGGGAAGACCTAGAA	160		
QY	1984	CCCTTTCCCGACGACCTTGGTTTTCCACATGATATTTATGAGTAATTTTTCATATGT	2043		
Db	159	CCCTTTCCCGACGACCTTGGTTTTCCACATGATATTTATGAGTAATTTTTCATATGT	100		
QY	2044	ACATCTCTTATTTTCTTTACATTTATTTATGCCCCCAAAATTTATTTATGTATGTAAGTGAG	2103		
Db	99	ACATCTCTTATTTTCTTTACATTTATTTATGCCCCCAAAATTTATTTATGTATGTAAGTGAG	40		
QY	2104	GTTTGTTTTGTATATTAATAATGGAGTTTGTGTGT	2137		
Db	39	GTTTGTTTTGTATATTAATAATGGAGTTTGTGTGT	6		

[illegible]

ORGANISM

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

1 (bases 1 to 410)

REFERENCE

AUTHORS

Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M. R., Nagai, M. A., da Silva W. Jr., Zago, M. A., Bordin, S., Costa, F. F., Goldman, G. H., Carvalho, A. F., Matsukuma, A., Baia, G. S., Simpson, D. H., Brustein, A., de Oliveira, P. S., Bucher, P., Jongeneel, C. V., O'Hare, M. J., Soares, F., Brentani, R. R., Reis, L. F., de Souza, S. J. and Simpson, A. J.

TITLE	Simpson,A.J. Shotgun sequencing of the human transcriptome with ORF expressed sequence tags
JOURNAL	Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
MEDLINE	20202663
COMMENT	Contact: Simpson A.J.G.

CONTACT: Simpson A.G.G.  
Laboratory of Cancer Genetics  
Ludwig Institute for Cancer Research  
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,  
Brazil  
Tel: +55-11-2704922  
Fax: +55-11-2707001  
Email: [asimpson@ludwig.org.br](mailto:asimpson@ludwig.org.br)  
This sequence was derived from the FAPESP/LICR Human Cancer Genome

This sequence was derived from the FAPESP/LICR Human Cancer Genome

Project. This entry can be seen in the following URL  
(<http://www.ludwig.org.br/scripts/gethtml2.pl?ti=612=RC5-BT0708-160>)  
300-021-E106t3=2000-03-16&t4=1)  
Seq primer: puc 18 forward  
High quality sequence start: 16  
High quality sequence stop: 409

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FEATURES
source
high quality sequence stop: 409.
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/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_lib="BR0708"
/dev_stage="Adult"
/notes="Organ: breast; Vector: puc18; Site1: Sma1; Site2:
Sma1; A mini-library was made by cloning products derived
from ORESTES PCR (U.S. Letters Patent application No. 196
,716 - Ludwig Institute for Cancer Research) profiles
into the pUC 18 vector. Reverse transcription of tissue
mRNA and cDNA amplification were performed under low
stringency conditions."
117 a 99 c 105 g 89 t
BASE COUNT
ORIGIN

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BASE COUNT	117 a	99 c	105 g	89 t	Stringency conditions.
ORIGIN					
Query Match	17.5%	Score 373.6;	DB 10;	Length 110;	
Best Local Similarity	98.3%	Pred. No. 2.4e-72;			
Matches 376;	Conservative 0;	Mismatches 4;	Indels 0;	Gaps 0;	
Qy 1157	GGTACCTGCACGCGTGGGGAGCTGCTTCTACAAGAACAGCTCTGAGTCCACGCTTCTCTTT	1216			
Db 395	GGTCCCTGCACGCGTGGGGAGCTGCTTCTACAAGAACAGCTCTGAGTCCACGCTTCTCTTT	336			
Qy 1217	AGCTTTTAGGAGAACAATCTAGAAAGTTGTACATATTCAGAGTTTTCATTGGCCAGTGCCA	1276			
Db 335	AGCTTTTAGGAGAACAATCTAGAAAGTTGTACATATTCAGAGTTTTCATTGGCCAGTGCCA	276			
Qy 1277	GTTTCTAGCCAAATAGACTTGTCTGATCATACATGTTAAGCCTGTAGCTTGGCCAGCTGC	1336			
Db 275	GTTTCTAGCCAAATAGACTTGTCTGATCATACATGTTAAGCCTGTAGCTTGGCCAGCTGC	216			
Qy 1337	TGCGTGGGCCCCCATCTGCTCCCTCGAGGTGCTGCACAAGCTGTGCTCACTGTCTCAGT	1396			
Db 215	TGCGTGGGCCCCCATCTGCTCCCTCGAGGTGCTGCACAAGCTGTGCTCACTGTCTCAGT	156			
Qy 1397	TCTGCTTTGAATACCTCATCGATGGGAATCAGTTCCTTTGGAAAAATTTCTATGTCAA	1456			
Db 155	TCTGCTTTGAATACCTCATCGATGGGAATCAGTTCCTTTGGAAAAATTTCTATGTCAA	96			
Qy 1457	GCTGAAATTCCTCAATTTTTTCTCATCACTTCCCGAGGAGCAGCCAGAAGACAGGCAGTA	1516			
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Qy 1517	GTTTTAAATTTAGGAACAGG	1536			
Db 35	GTTTTAAATTTAGGAGCAGG	16			

RESULT 12	AA220994	370 bp	linear	EST 11-FEB-1997
LOCUS	AA220994			
DEFINITION	Stratagene NT2 neuronal precursor 937230 Homo sapiens			
	cDNA clone IMAGE:650264 5', mRNA sequence.			
ACCESSION	AA220994			
VERSION	AA220994.1			
KEYWORDS	EST.			
SOURCE	human.			
ORGANISM	Homo sapiens			

Homo sapiens  
 Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi:  
 Mammalia: Eutheria: Primates: Catarrhini: Hominoidea: Homo:  
 1 (bases 1 to 370)  
 Hillier, L., Lennon, G., Becker, M., Bonaldo, M. F., Chiapelli, B.,  
 Chissoe, S., Dietrich, N., Dubuque, T., Favello, A., Gish, W., Hawkins,  
 M., Hultman, M., Kucaba, T., Lucy, M., Le, M., Le, N., Mardis, E., Moore,  
 B., Morris, M., Parsons, J., Prange, C., Rifkin, L., Rohlfing, T.,  
 Schellenberg, K., Soares, M. B., Tan, F., Thierry-Mieg, J., Trevisan, E.,

```
Underwood,K., Wohldmann,P., Waterston,R., Wilson,R. and Marra,M.
Generation and analysis of 280,000 human expressed sequence tags
Genome Res. 6 (9), 807-828 (1996)
97044478
Contact: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Seq primer: -28ml3 revl Et from Amersham.
Location/Qualifiers
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/clone="IMAGE:650264"
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/dev_stage="Ntera-2 neuroepithelial cells"
/lab_host="SOLR (kanamycin resistant)"
/Note="organ: brain; Vector: pBluescript SK-; Site_1:
EcoRI; Site_2: XhoI; Cloned unidirectionally. Primer:
Oligo dt. Uninduced, exponentially growing neuroepithelial
cells (Ntera-2/cl.D1). Average insert size: 1.0 kb;
Uni-ZAP XR Vector; -5' adaptor sequence: 5' GAATTCGGCAGGAG
3' -3' adaptor sequence: 5' CTCAGTGTGTTTTTTTTTTT 3'"
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Query Match      16.1%; Score 344.4; DB 9; Length 370;
Best Local Similarity 98.7%; Pred. No. 7.2e-66;
Matches 368; Conservative 0; Mismatches 2; Indels 3; Gaps 2;
QY 827 TTCGAGGAGGATCGCCCGAGATGCTACAATGTGTACCGATCCGAGAACGCCGCTC 886
Db 1 TTCGAGGAGGATCGCCCGAGATGCTACAATGTGTACCGATCCGAGAACGCCGCTC 60
QY 887 CCGGTCTCCCTGAGCAGTCCCAACAGCGGACGTGTACAAGAACAGAGCGCTTCTTCCA 946
Db 61 CCGGTCTCCCTGAGCAGTCCCAACAGCGGCA--NTTACAAGAACAGAGCGCTTCTTCCA 118
QY 947 CTCCTCTCATTTCTGCCCCATGCTGCCATGTGTCACGAGAGCGCTCAGGACCTCAGGGGC 1006
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QY 1007 CACTTGGAAATCTGACATGTTCTCTTCGCCCTTGGAGACCGCAGCATGACCCATTTCGG 1066
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Db 239 CTGTGCACCGGACTGGAGCGGTGAGGAGTCCAGCTTTGAGAAGTAACTGAGACCATCG 298
QY 1127 CCGGGCCCTTCTCACTGCTGCCAGGGCTGTGTTACCTCGAGGCTGGGGACGTTGCTTTCTA 1186
Db 299 CCGGGCCCTTCTCACTGCTGCCAGGGG-TGTGGTACCTGCAGCGTGGGGACGTTGCTTTA 357
QY 1187 CAAGAACAGTCCT 1199
Db 358 CAAGAACAGTCCT 370
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LOCUS
DEFINITION      353 bp mRNA linear EST 07-FEB-1997
cdna clone IMAGE:650264 3', mRNA sequence.
ACCESSION      AA218987
VERSION        AA218987.1 GI:1833061
KEYWORDS        EST.

human.
Homo sapiens
Eukaryota: Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia: Eutheria; Primates; Catarrhini; Hominoidea; Homo.
1 (bases 1 to 353)
Hillier,L., Lennon,G., Becker,M., Bonaldo,M.P., Chiapelli,B.,
Chissoe,S., Dietrich,N., Dubuque,T., Favello,A., Gish,W., Hawkins
,M., Hultman,M., Kucaba,T., Lacy,M., Le,M., Le,N., Mardis,E., Moore
,B., Morris,M., Parsons,J., Prange,C., Rifkin,L., Rohlfing,T.,
Schellenberg,K., Soares,M.B., Tan,F., Thierry-Mieg,J., Trevaskis,E.,
Underwood,K., Wohldmann,P., Waterston,R., Wilson,R. and Marra,M.
Generation and analysis of 280,000 human expressed sequence tags
Genome Res. 6 (9), 807-828 (1996)
97044478
Contact: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Seq primer: -41ml3 fwd. Et from Amersham
High quality sequence stop: 193.
Location/Qualifiers
1..353
/organism="Homo sapiens"
/db_xref="GDB:5276853"
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/clone="IMAGE:650264"
/tissue_type="neuroepithelial cells"
/dev_stage="Ntera-2 neuroepithelial cells"
/lab_host="SOLR (kanamycin resistant)"
/Note="organ: brain; Vector: pBluescript SK-; Site_1:
EcoRI; Site_2: XhoI; Cloned unidirectionally. Primer:
Oligo dt. Uninduced, exponentially growing neuroepithelial
cells (Ntera-2/cl.D1). Average insert size: 1.0 kb;
Uni-ZAP XR Vector; -5' adaptor sequence: 5' GAATTCGGCAGGAG
3' -3' adaptor sequence: 5' CTCAGTGTGTTTTTTTTTTT 3'"
BASE COUNT      104 a 54 c 66 g 120 t 9 others
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Best Local Similarity 96.1%; Pred. No. 4.3e-53;
Matches 299; Conservative 0; Mismatches 11; Indels 1; Gaps 1;
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Db 353 CCCACCTCANATGCCCTCCCATGGAAATGGGCTCCAGGCCGCCACCTTATGTCACAC 294
QY 1887 TGCACCTTCTGTTCAAAATTCAGAAAGAAAGATTTCGAAGACCCCAAGCTGTGTCAAT 1946
Db 293 TGCACCTTCTGTTCAAAATTCAGAAAGAAAGATTTCGAAGACCCCAAGTNTGTCAAT 234
QY 1947 AACTTGTCTGTGGAGACGCGGGGGAACACCTTAGAACCTTTCCCGACACTTGGTTT 2006
Db 233 AACTTGTCTGTGGAGACGCGGGGGAACACCTTAGAACCTTTCCCGACAC-IGGTTT 175
QY 2007 CCAACATGATATTTATGAGTAATTTATTTTGATATGATGATCTCTTATTTCTTACATTA 2066
Db 174 CCAACATGATATTTNTGNGTAATTTATTTTGATATGATGATCTCTTATTTCTTACATTA 1115
QY 2067 TTTATGCCCCCAATTTATTTATGATGATGATGAGGTTGTTTGTATATTAATAATGG 2126
Db 114 TTTNTGCCCCCAATTTATTTATGATGATGATGAGGTTGTTTGTATTAATAATGG 55
QY 2127 AGTTTGTGTTGT 2137
Db 54 AGTTTGTGTTGT 44
RESULT 14
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AA232080/c  
LOCUS  
DEFINITION  
ACCESSION  
VERSION  
KEYWORDS  
SOURCE  
ORGANISM

AA232080  
zr23g10.s1 Stratagene NT2 neuronal precursor 937230 Homo sapiens  
cDNA clone IMAGE:664290 3', mRNA sequence.

AA232080  
AA232080.1 GT:1855310  
EST.  
human.

Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.  
1 (bases 1 to 291)

Hillier, L., Lennon, G., Becker, M., Bonaldo, M.F., Chiapelli, B.,  
Chissoe, S., Dietrich, N., Dubuque, T., Favell, A., Gish, W., Hawkins,  
M., Hultman, M., Kucaba, T., Lacy, M., Le, M., Le, N., Mardis, E., Moore,  
B., Morris, M., Parsons, J., Prange, C., Rifkin, L., Rohlfing, T.,  
Schellenberg, K., Soares, M.B., Tan, F., Thierry-Mieg, J., Trevaskis, E.,  
Underwood, K., Wohlmann, P., Waterston, R., Wilson, R. and Marra, M.  
Generation and analysis of 280,000 human expressed sequence tags  
Genome Res. 6 (9), 807-828 (1996)  
97044478

CONTACT: Wilson RK  
Washington University School of Medicine  
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
Tel: 314 286 1800  
Fax: 314 286 1810  
Email: est@watson.wustl.edu

This clone is available royalty-free through LLNL; contact the  
IMAGE Consortium (info@image.llnl.gov) for further information.  
Seq primer: -4lmi3 fwd. ET from Amersham  
High quality sequence stop: 281.

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/tissue\_type="neuroepithelial cells"  
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/lab\_host="SOLR (kanamycin resistant)"  
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ECORI; Site: 2: XhoI; Cloned unidirectionally. Primer:  
Oligo dt. Uninduced, exponentially growing neuroepithelial  
cells (Ntera-2/cl.D1). Average insert size: 1.0 kb;  
Uni-ZAP XR Vector; -5' adaptor sequence: 5' GAATTCGGCAGCAG  
3' -3' adaptor sequence: 5' CTCACGTTTTTTTTTTTTTTT 3' 89 t

BASE COUNT  
99 a 48 c 55 g 89 t

ORIGIN  
Query Match 12.5%; Score 266.4; DB 9; Length 291;  
Best Local Similarity 99.3%; Pred. No. 1.4e-48;  
Matches 278; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

Qy 1858 CTTCCAGGCCCCCACCCTATGTCAACCTGCACCTCTTGTTCACAAATATCAGGAAGAA 1917  
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Db 291 CTTCCAGGCCCCCACCCTATGTCAACCTGCACCTCTTGTTCACAAATATCAGGAAGAA 232  
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Qy 1918 AAGATTGAAGACCCCAAGTCTTGTCAATACTGCTGTGTGGAAGACGCGGGGAAGAC 1977  
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Db 231 AAGATTGAAGACCCCAAGTCTTGTCAATACTGCTGTGTGGAAGACGCGGGGAAGAC 172  
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Qy 1978 CTGAACCCCTTCCCGACGACCTGGTTTCCCAACATGATATTATGACTAAATTATTTT 2037  
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Db 171 CTGAACCCCTTCCCGACGAC -TGGTTTTCACATGATATTATGAGTAATTTATTTT 113  
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Qy 2038 ATATGTACATCTCTTATTTTCTTACATTTATTTATGCCCCCAATATATTTATGTATGTA 2097  
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Db 112 ATATGTACATCTCTTATTTTCTTACATTTATTTATGCCCCCAATATATTTATGTATGTA 53  
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Qy 2098 AGTGAGGTTTGTTCGTATATTAATGAGGTTTGTTCGT 2137  
|||||

Db 52 AGTGAGGTTTGTTCGTATATTAATGAGGTTTGTTCGT 13  
|||||





GenCore version 5.1.4\_p5-4578  
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OM nucleic - nucleic search, using sw model

Run on: May 11, 2003, 02:19:03 ; Search time 86 Seconds  
(without alignments)  
7620.561 Million cell updates/sec

Title: US-09-924-647-1  
Perfect score: 2137  
Sequence: 1 gctccagccaagaacctcg.....ttaaaatggagttgtttgt 2137

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued\_Patents\_NA: \*  
1: /cgn2\_6/ptodata/1/ina/5A\_COMB.seq: \*  
2: /cgn2\_6/ptodata/1/ina/5B\_COMB.seq: \*  
3: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq: \*  
4: /cgn2\_6/ptodata/1/ina/6B\_COMB.seq: \*  
5: /cgn2\_6/ptodata/1/ina/pCTUS\_COMB.seq: \*  
6: /cgn2\_6/ptodata/1/ina/backfiles1.seq: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	70.4	3.3	528	4	US-08-478-486F-10
2	70.4	3.3	618	4	US-08-478-486F-9
3	70.4	3.3	1142	4	US-08-478-486F-11
4	70.4	3.3	1219	5	PCT-US93-06251-11
5	68.6	3.2	599	6	5430019-1
6	68.6	3.2	423	1	US-08-187-780-2
7	68.6	3.2	423	1	US-08-187-780-5
8	68.6	3.2	423	2	US-08-478-485-2
9	68.6	3.2	423	2	US-08-478-485-5
10	68.6	3.2	423	4	US-08-478-486F-2
11	68.6	3.2	423	4	US-08-478-486F-5
12	61.8	2.9	44377	2	US-08-804-227C-7
13	61.8	2.9	44377	3	US-08-804-198-1
14	56.2	2.6	1656	3	US-09-026-958-1
15	54.6	2.6	2849	3	US-08-809-286B-1
16	50.2	2.3	609	4	US-09-057-860A-1
17	50.2	2.3	3877	2	US-08-599-895-1
18	50.2	2.3	3877	3	US-09-211-290-1
19	50.2	2.3	3877	3	US-09-322-676-1
20	50.2	2.3	3877	4	US-09-466-036A-1
21	50	2.3	2712	3	US-09-025-691-4
22	49	2.3	2150	2	US-08-318-837-1
23	49	2.3	9960	3	US-08-822-586-46
24	48.8	2.3	2285	1	US-08-477-674-9
25	48.8	2.3	2285	1	US-08-473-791-9
26	48.8	2.3	2285	2	US-08-316-714-9
27	48.8	2.3	2285	3	US-08-473-673-9

28	48	2.2	1536	4	US-09-180-109A-3	Sequence 3, Appl
29	48	2.2	2581	2	US-09-013-634-1	Sequence 1, Appl
30	47.8	2.2	1138	3	US-08-581-148C-3	Sequence 1, Appl
31	47.8	2.2	71989	4	US-09-443-501A-2	Sequence 2, Appl
32	47.6	2.2	7218	1	US-08-232-463-14	Sequence 14, Appl
33	47.4	2.2	1491	4	US-09-082-092-9	Sequence 9, Appl
34	47.4	2.2	1817	4	US-09-288-292A-45	Sequence 45, Appl
35	47.2	2.2	6250	1	US-08-729-214-23	Sequence 23, Appl
36	47.2	2.2	6250	3	US-09-028-934-23	Sequence 23, Appl
c 37	46.6	2.2	2692	1	US-07-932-454A-2	Sequence 2, Appl
38	45.6	2.1	954	3	US-08-680-506-5	Sequence 5, Appl
39	45.6	2.1	1347	3	US-08-680-506-8	Sequence 8, Appl
40	45.6	2.1	1587	3	US-08-680-506-6	Sequence 6, Appl
41	45.6	2.1	2233	3	US-08-680-506-4	Sequence 4, Appl
42	45.6	2.1	5027	3	US-08-680-506-2	Sequence 2, Appl
c 43	45.6	2.1	13842	4	US-09-105-537-30	Sequence 30, Appl
c 44	45.6	2.1	36778	4	US-09-105-537-5	Sequence 5, Appl
c 45	45.6	2.1	38506	3	US-09-320-878-19	Sequence 19, Appl

ALIGNMENTS

RESULT 1  
US-08-478-486F-10  
; Sequence 10, Application US/08478486F  
; Patent No. 6432702  
; GENERAL INFORMATION:  
; APPLICANT: CLAUDIO BASILICO  
; APPLICANT: DANIELA TALARICO  
; TITLE OF INVENTION: MAMMALIAN GROWTH FACTOR  
; NUMBER OF SEQUENCES: 12  
; CORRESPONDENCE ADDRESS:  
; ADDRESSER: Darby & Darby P.C.  
; STREET: 805 Third Avenue  
; CITY: New York  
; STATE: New York  
; COUNTRY: USA  
; ZIP: 10022  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy Diskette, 3+ Inch,  
; MEDIUM TYPE: 1.44 MB storage  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC/MS-DOS  
; SOFTWARE: Wordperfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/478,486F  
; FILING DATE: June 7, 1995  
; CLASSIFICATION: 536  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/187,780  
; FILING DATE: January 25, 1994  
; APPLICATION NUMBER: 07/901,705  
; FILING DATE: June 22, 1992  
; APPLICATION NUMBER: 07/606,771  
; FILING DATE: December 6, 1991  
; APPLICATION NUMBER: 07/177,506  
; FILING DATE: April 4, 1988  
; APPLICATION NUMBER: 07/062,925  
; FILING DATE: June 16, 1987  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Howard M. Frankfort  
; REGISTRATION NUMBER: 32,613  
; REFERENCE/DOCKET NUMBER: 5986/13586-US7  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 527-7700  
; TELEFAX: (212) 753-6237  
; INFORMATION FOR SEQ ID NO: 10:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 528 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear

MOLECULE TYPE: CDNA  
US-08-478-486F-10

Query Match 3.3%; Score 70.4; DB 4; Length 528;  
Best Local Similarity 52.3%; Pred. No. 2.5e-08;  
Matches 180; Conservative 0; Mismatches 161; Indels 3; Gaps 1;

QY 549 ACGGGGGCCCCACGCTGCTACGCTGGGGGCGAGCCCATCCGCTCGGGCACCCTGTACA 608  
DB 104 AGGAGGGGGCGCTGACAGAGCGGGCGCGGACTACCTGCTGGGCATCAAGCGGCTGCGGC 163  
QY 609 CCTCGGGCCCCACGCTGCTCCAGCTGCTTCCTGGCGCATCCGTCGCGAGCGGCTCGTGG 668  
DB 164 GCCTCTACTGCAACGTGGGCATCGGCTTCCACCTCCAGGCGCTCCCGAGCGGCGGCATCG 223  
QY 669 ACTCGGGGGGGCGAGAGCGGCGACAGTTTGTCTGGAGATCAAGGCGAGTCTCTGCGGA 728  
DB 224 CGCGGGCGGCGGACACCGCGGACAGCTGCTGGAGCTCTCGCGGTGGAGCGGGCGG 283  
QY 729 CCGTGGGCATCAAGGGGCTGACAGCGTGGGTTACCTCTGCGATGGGGCGCGACGGCAAGA 788  
DB 284 TGGTGAGCATCTTCGGGCTGCCAGCGGTTCTTCGTGGGCATCAGCAGCAAGGCGCAAGC 343  
QY 789 TGCAGGGGCTCTTCAGTACTCGGAGGAGACTGTGCTTTCGAGGAGGAGATCCGCCCGAG 848  
DB 344 TCTATGGCTCG---CCCTTCTTACCGCATGAGTGACGTTCAAGGAGATTCTCCTTCCCA 400  
QY 849 ATGGCTACAATGTGTACCGATCCGAGAGACCGCCCTCCCGGTC 892  
DB 401 ACACTACAAGCGCTACGAGTCTCCTACAAGTACCCCGGCATGTTTC 444

## RESULT 2

US-08-478-486F-9  
Sequence 9, Application US/08478486F  
Patent No. 6432702

## GENERAL INFORMATION:

APPLICANT: CLAUDIO BASILICO  
APPLICANT: DANIELA TALARICO  
TITLE OF INVENTION: MAMMALIAN GROWTH FACTOR  
NUMBER OF SEQUENCES: 12  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Darby & Darby P.C.  
STREET: 805 Third Avenue  
CITY: New York  
STATE: New York  
COUNTRY: USA  
ZIP: 10022

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy Diskette, 3+ inch,  
MEDIUM TYPE: 1.44 MB storage  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC/MS-DOS  
SOFTWARE: Wordperfect 5.1  
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/478,486F  
FILING DATE: June 7, 1995

## CLASSIFICATION: 536

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/187,780  
FILING DATE: January 25, 1994  
APPLICATION NUMBER: 07/901,705  
FILING DATE: June 22, 1992  
APPLICATION NUMBER: 07/806,771  
FILING DATE: December 6, 1991  
APPLICATION NUMBER: 07/177,506  
FILING DATE: April 4, 1988  
APPLICATION NUMBER: 07/062,925  
FILING DATE: June 16, 1987

## ATTORNEY/AGENT INFORMATION:

NAME: Howard M. Frankfort  
REGISTRATION NUMBER: 32,613  
REFERENCE/DOCKET NUMBER: 5986/13586-US7

## TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 527-7700  
TELEFAX: (212) 753-6237  
INFORMATION FOR SEQ ID NO: 9:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 618  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-478-486F-9

Query Match 3.3%; Score 70.4; DB 4; Length 618;  
Best Local Similarity 52.3%; Pred. No. 2.7e-08;  
Matches 180; Conservative 0; Mismatches 161; Indels 3; Gaps 1;

QY 549 ACGGGGGCCCCACGCTGCTACGCTGGGGGCGAGCCCATCCGCTCGGGCACCCTGTACA 608  
DB 194 AGAGGGGGCGGCTCCAGAGCGGCGCGGCTACCTGCTGGGCATCAAGCGGCTGCGGC 253  
QY 609 CCTCGGGCCCCACGCTCTCCAGCTGCTTCCTGCGCATCCGTTGCCGAGCGGCTCGTGG 668  
DB 254 GGCTCTACTGCAACGTGGGCATCGGCTTCCACCTCCAGGCGCTCCCGAGCGGCGCATCG 313  
QY 669 ACTCGGGGGGGCGGCGGCGGCGGAGAGTTTGTCTGGAGATCAAGGAGGAGTCTCCTCTCGGGA 728  
DB 314 CGGCGGCGGCGAGCGGCGGACACCGCGGAGCTGCTGGAGCTCTCGCCGCTGGAGCGGGCG 373  
QY 729 CCGTGGGCATCAAGGGGCTGACAGCGTGGGTACCTCTGCTATGGCGCGCGACGGCAAGA 788  
DB 374 TGGTGAGCATCTTCGGGCTGCCAGCGGTTCTTCGTGGGCATGAGCAGCAAGGCGCAAGC 433  
QY 789 TGCAGGGGCTCTTCAGTACTCGGAGGAGAGACTGTGCTTTCGAGGAGGAGATCCGCCCGAG 848  
DB 434 TCTATGGCTCG---CCCTTCTTACCGCATGAGTGACGTTCAAGGAGATTCTCCTTCCCA 490  
QY 849 ATGGCTACAATGTGTACCGATCCGAGAGACCGCCCTCCCGGTC 892  
DB 491 ACACTACAAGCGCTACGAGTCTCCTACAAGTACCCCGGCATGTTTC 534

## RESULT 3

US-08-478-486F-11

Sequence 11, Application US/08478486F  
Patent No. 6432702

## GENERAL INFORMATION:

APPLICANT: CLAUDIO BASILICO  
APPLICANT: DANIELA TALARICO  
TITLE OF INVENTION: MAMMALIAN GROWTH FACTOR  
NUMBER OF SEQUENCES: 12  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Darby & Darby P.C.  
STREET: 805 Third Avenue  
CITY: New York  
STATE: New York  
COUNTRY: USA  
ZIP: 10022

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy Diskette, 3+ inch,  
MEDIUM TYPE: 1.44 MB storage  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC/MS-DOS  
SOFTWARE: Wordperfect 5.1  
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/478,486F  
FILING DATE: June 7, 1995

## CLASSIFICATION: 536

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/187,780  
FILING DATE: January 25, 1994  
APPLICATION NUMBER: 07/901,705  
FILING DATE: June 22, 1992  
APPLICATION NUMBER: 07/806,771  
FILING DATE: December 6, 1991

```

: APPLICATION NUMBER: 07/177,506
: FILING DATE: April 4, 1988
: APPLICATION NUMBER: 07/062,925
: FILING DATE: June 16, 1987
: ATTORNEY/AGENT INFORMATION:
: NAME: Howard M. Frankfort
: REGISTRATION NUMBER: 32,613
: REFERENCE/DOCKET NUMBER: 5986/13586-US7
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (212) 527-7700
: TELEFAX: (212) 753-6237
: INFORMATION FOR SEQ ID NO: 11:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 1142 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: Genomic DNA
US-08-478-486F-11

```

Query Match	3.3%	Score 70.4;	DB 4;	Length 1142;
Best Local Similarity	52.3%;	Pred. No. 3.6e-08;		
Matches 180;	Conservative 0;	Mismatches 161;	Indels 3;	Gaps 1;
QY	549	ACGCGGGGCCCCACGTCACCTACGGCTGGGCGGACCCCATCCGCTCGGGGACCTGTACA	608	
Db	436	AGGAGGCGGGCGTCCAGAGCGGCGCGGCACTACCTGCTGGGCATCAAGCGGCTGGCGC	495	
QY	609	CCTCCGGGCCCCACGAGGGCTCTCCAGCTCTTCTTCGTGGCGATCCGTGCCGACGCGCTCGTGG	668	
Db	496	GGCTCTACTCAACGTGGGCATCGGCTTCCACCTCCAGGCGCTCCCCGACGCGCCATCG	555	
QY	569	ACTCGCGCGGGCCAGAGCGGCACAGTTCGTGGAGATCAAGGCAGTCTGCTCTGGGA	728	
Db	556	CGCGCGGCACGCGGACACCCGCACGCTCTCTGGAGCTCTCGCGCTGGAGGGGGCG	615	
QY	729	CCGTGGCCATCAAGGGCGTGCACAGCTGCGGTACCTCTGCATGGCGCCACGCCAGA	788	
Db	616	TGGTAGCATCTTCGGCGTGGCCAGCGGTTCTTCGTGGCCATGAGCAGCAAGGGCAAGC	675	
QY	789	TGCAGGGGCTGCTTCAGTACTTCGAGGAAGACTGTGCTTCGAGGAGGAGATCCGCCAG	848	
Db	676	TCTATGGCTCG--CCCTCTCTCACCGCATGATGCACGTTCAAGGAGATCTCTCTCCA	732	
QY	849	ATGGCTACATGTGTACCGATTCGAGAGCACCAGCTCCCGGTC	892	
Db	733	ACAACTACAAGCCTACGAGTCTTACAAGTACCCCGGCATGTC	776	

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1  RESULT 4
2  PCT-US93-06251-11
3  ; Sequence 11, Application PC/TUS9306251
4  ; GENERAL INFORMATION:
5  ;
6  ; APPLICANT: Wickstrom, Eric and Rife, Jason P.
7  ;
8  ; TITLE OF INVENTION: Trivalent Synthesis of Oligonucleotides Containing
9  ; Stereospecific Alkylphosphonates and Arylphosphonates
10 ;
11 ; TITLE OF INVENTION: Stereospecific Alkylphosphonates and Arylphosphonates
12 ;
13 ; NUMBER OF SEQUENCES: 93
14 ;
15 ; CORRESPONDENCE ADDRESS:
16 ;
17 ; ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
18 ;
19 ; STREET: 400 Garden City Plaza
20 ;
21 ; CITY: Garden City
22 ;
23 ; STATE: NY
24 ;
25 ; COUNTRY: USA
26 ;
27 ; ZIP: 11530
28 ;
29 ; COMPUTER READABLE FORM:
30 ;
31 ; MEDIUM TYPE: Floppy disk
32 ;
33 ; COMPUTER: IBM PC compatible
34 ;
35 ; OPERATING SYSTEM: PC-DOS/MS-DOS
36 ;
37 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
38 ;
39 ; CURRENT APPLICATION DATA:
40 ;
41 ; APPLICATION NUMBER: PCT/US93/06251
42 ;
43 ; FILING DATE: 19930630
44 ;
45 ; CLASSIFICATION:

```

```

: ATTORNEY/AGENT INFORMATION:
:
: NAME: Digiglio, Frank S.
:
: REGISTRATION NUMBER: 31,346
:
: REFERENCE/DOCKET NUMBER: 8586
:
: TELECOMMUNICATION INFORMATION:
:
: TELEPHONE: 516-742-4343
:
: TELEFAX: 516-742-4366
:
: TELEX: 230 901 SANS UR
:
: INFORMATION FOR SEQ ID NO: 11:
:
: SEQUENCE CHARACTERISTICS:
:
: LENGTH: 1219 base pairs
:
: TYPE: nucleic acid
:
: STRANDEDNESS: double
:
: TOPOLOGY: linear
:
: MOLECULE TYPE: DNA (genomic)
:
: PCT-US93-06251-11

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Query Match	3.3%	Score 70.4	DB 5	Length 1219	
Best Local Similarity	52.3%	Pred. No. 3.7e-08			
Matches 180	Conservative	0	Mismatches 161	Indels 3	Gaps 1
QY	549	ACGCGGGGCCCCACGTCACCTACGGCTGGGCGACCCCATCCGGCTCGCGCACCGTACACA	608		
Db	513				
QY	609	CCTCGGGCCCCCAGCGGCTCTCCAGCTCTCTCTCGGCATCCGTCCGCACACGGCTCGTGG	668		
Db	573	GGCTCTACTGCACGTGGGATCGGCTTCCACCTCCAGGGCGCTCCCCGACGGCCCATCG	632		
QY	669	ACTGCGGGGGGCCAGAGCGGCACAGTTCCTTGGAGATCAAGGCAGTCTGTCCGGA	728		
Db	633	CGCGCGCGCACGCGGACACCGGCACGCCTGCTTGGAGCTCTCGGCCCTTGAGGCGGGCG	692		
QY	729	CCGTGGCCATCAAGGGCGTGCACAGCGTGGGTACCTCTGTCATGGGCGCCGACGCGAAGA	788		
Db	693	TGGTGAGCATCTTCGGCGTGCCACGCCGTTCCTTCGTGGGCATGACGACGAAGGGCAAGC	752		
QY	789	TGCAGGGGCTGCTTCAGTACTTCGAGGAAGAAGCTGTCTTCGAGGAGGAGATTCGCCCCAG	848		
Db	753	TCATATGGCTCG--CCCTCTCTTCCACCGATGAGTCGACGCTTCAAGGAGATTTCATCCCA	809		
QY	849	ATGGCTACATGTGTACCGATTCGAGAGACACCGCCCTCCCGGTC	892		
Db	810	ACAACTACAACGCCCTACGAGTCTTACAAGTACCCCGCATGTTTC	853		

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RESULT 5
5430019-1
; Patent NO. 5430019
; APPLICANT: ROGERS, DAVID T.; WOLFMAN, NEIL M.; SEEHRA, JASBIR S.
; TITLE OF INVENTION: HOMOGENEOUS K-EGF AND USE OF THE SAME.
; NUMBER OF SEQUENCES: 2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/898,051
; FILING DATE: 12-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 438,278
; FILING DATE: 16-NOV-1989
; SEQ ID NO: 1
; LENGTH: 599
4330019-1

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	Query Match	3.2%	Score 68.8	DB 6	Length 594
	Best Local Similarity	52.0%	Pred. No. 6.7e-08		
	Matches 179	Conservative 0	Mismatches 162	Indels 3	Gaps 1
QY	549	ACGCGGGCCCCACGTGCAC	TACGGTGGCGGACCCCAT	TCGGCTCGCGCACCTGTACA	608
Db	107	AGGAGCGCGGTCCAGAGCG	CGCGGACTACCTGCTGGG	CATCAAGCGCTGCGGC	166
QY	609	CTTCGGCGCCCCAGGCGCT	CTCCAGCTGCTTCCTGCG	CGCATCCGGTGGCAGGGG	668
bb	167	GGCTCTACTGCACGTGGG	CATCGGTTCCACCTTCAC	CTCCAGCGGCGGCGATCG	226





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; FILING DATE:
; PUBLICATION DATE:
; RELEVANT RESIDUES IN SEQ ID NO: 1-423
US-08-478-485-2

Query Match 3.2%; Score 68.6; DB 2; Length 423;
Best Local Similarity 52.2%; Pred. No. 6.3e-08;
Matches 177; Conservative 0; Mismatches 159; Indels 3; Gaps 1;

QY 554 GGGCCCCACGCTGACACTACGCTGGGGGACCCCATCCGCTGCGGCACCTGTACACCTCC 613
Db 1 GCGCCGCTCAGAGCGCGCGGACTACCTGCTGGGCATCAAGCGCTGCGGCGCTC 60
QY 614 GGGCCCCACGCTGCTCCAGCTGCTTCTCGGCATCCGCTGCGGCACGCTGCTGGACTGC 673
Db 61 TACTGCAACGTGGGCATCGGCTTCCACCTCCAGGCGCTCCCGGCGGCGGCGG 120
QY 674 GCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 733
Db 121 GCGCAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 180
QY 734 GGCATCAAGGCGCTGACAGCGGCTGCTGCTGCGCATCCGCTGCGGCACGCTGCTGCTAT 240
Db 181 AGCATCTTCGCGCTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 793
QY 794 GGGCTGCTTCCAGTACTCGGAGGAGAGTGTGCTTTTCGAGGAGGAGATCCCGCCAGATGCG 853
Db 241 GGCTCG--CCCTTCTTCCCGATGAGTGACGCTTCAAGGAGATTCTCTCTCCCAACAAC 297
QY 854 TACAATGTGTACGATCCGAGAGACCGCGCTCCCGGTC 892
Db 298 TACAAGCGCTACGAGTCTTACAAGTACCGCGGCGATGTTTC 336

RESULT 9
US-08-478-485-5
; Sequence 5, Application US/08478485
; Patent No. 5883071
; GENERAL INFORMATION:
; APPLICANT: CLAUDIO BASILICO
; APPLICANT: DANIELA TALARICO
; TITLE OF INVENTION: MAMMALIAN GROWTH FACTOR
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Darby & Darby P.C.
; STREET: 805 Third Avenue
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Diskette, 3+ inch,
; MEDIUM TYPE: 1.44 MB storage
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC/MS-DOS
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/478,485
; FILING DATE: Concurrently Herewith
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/187,780
; FILING DATE: January 25, 1994
; APPLICATION NUMBER: 07/901,705
; FILING DATE: June 22, 1992
; APPLICATION NUMBER: 07/806,771
; FILING DATE: December 6, 1991
; APPLICATION NUMBER: 07/177,506
; FILING DATE: April 4, 1988
; APPLICATION NUMBER: 07/062,925
; FILING DATE: June 16, 1987
; ATTORNEY/AGENT INFORMATION:
; NAME: Joseph R. Robinson
```

```
; REGISTRATION NUMBER: 33,448
; REFERENCE/DOCKET NUMBER: 5986/13586-US6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 527-7700
; TELEFAX: (212) 753-6237
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE:
; DESCRIPTION: Genomic DNA
; FEATURE:
; NAME/KEY:
; LOCATION:
; IDENTIFICATION METHOD:
; OTHER INFORMATION: This sequence
; OTHER INFORMATION: corresponds to K-FGF-140 and can be
; OTHER INFORMATION: found on page 11, lines 39-47 and page
; OTHER INFORMATION: 12, lines 1-31, in the application, as
; OTHER INFORMATION: filed.
; PUBLICATION INFORMATION:
; AUTHORS:
; TITLE:
; JOURNAL:
; VOLUME:
; ISSUE:
; PAGES:
; DATE:
; DOCUMENT NUMBER:
; FILING DATE:
; PUBLICATION DATE:
; RELEVANT RESIDUES IN SEQ ID NO: 1-423
US-08-478-485-5

Query Match 3.2%; Score 68.6; DB 2; Length 423;
Best Local Similarity 52.2%; Pred. No. 6.3e-08;
Matches 177; Conservative 0; Mismatches 159; Indels 3; Gaps 1;

QY 554 GGGCCCCACGCTGACACTACGCTGGGGGACCCCATCCGCTGCGGCACCTGTACACCTCC 613
Db 1 GCGCCGCTCAGAGCGCGCGGACTACCTGCTGGGCATCAAGCGCTGCGGCGCTC 60
QY 614 GGGCCCCACGCTGCTCCAGCTGCTTCTCGGCATCCGCTGCGGCACGCTGCTGGACTGC 673
Db 61 TACTGCAACGTGGGCATCGGCTTCCACCTCCAGGCGCTCCCGGCGGCGGCGGCGG 120
QY 674 GCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 733
Db 121 GCGCAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 180
QY 734 GGCATCAAGGCGCTGACAGCGGCTGCTGCTGCGCATCCGCTGCGGCACGCTGCTGCTAT 240
Db 181 AGCATCTTCGCGCTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 793
QY 794 GGGCTGCTTCCAGTACTCGGAGGAGAGTGTGCTTTTCGAGGAGGAGATCCCGCCAGATGCG 853
Db 241 GGCTCG--CCCTTCTTCCCGATGAGTGACGCTTCAAGGAGATTCTCTCTCCCAACAAC 297
QY 854 TACAATGTGTACGATCCGAGAGACCGCGCTCCCGGTC 892
Db 298 TACAAGCGCTACGAGTCTTACAAGTACCGCGGCGATGTTTC 336

RESULT 10
US-08-478-486F-2
; Sequence 2, Application US/08478486F
; Patent No. 6432702
; GENERAL INFORMATION:
; APPLICANT: CLAUDIO BASILICO
; APPLICANT: DANIELA TALARICO
; TITLE OF INVENTION: MAMMALIAN GROWTH FACTOR
```

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; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Darby & Darby P.C.
; STREET: 805 Third Avenue
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Diskette, 3+ inch.
; MEDIUM TYPE: 1.44 MB storage
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC/MS-DOS
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/478,486F
; FILING DATE: June 7, 1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/187,780
; FILING DATE: January 25, 1994
; APPLICATION NUMBER: 07/901,705
; FILING DATE: June 22, 1992
; APPLICATION NUMBER: 07/806,771
; FILING DATE: December 6, 1991
; APPLICATION NUMBER: 07/177,506
; FILING DATE: April 4, 1988
; APPLICATION NUMBER: 07/062,925
; FILING DATE: June 16, 1987
; ATTORNEY/AGENT INFORMATION:
; NAME: Howard M. Frankfort
; REGISTRATION NUMBER: 32,613
; REFERENCE/DOCKET NUMBER: 5986/13586-US7
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 527-7700
; TELEFAX: (212) 753-6237
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Genomic DNA
; DESCRIPTION: This sequence can be
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY:
; LOCATION:
; IDENTIFICATION METHOD:
; OTHER INFORMATION: This sequence can be
; OTHER INFORMATION: found on page 5, lines 3-13, in the
; OTHER INFORMATION: application, as filed.
; US-08-478-486F-2
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; Query Match 3.2%; Score 68.6; DB 4; Length 423;
; Best Local Similarity 52.2%; Pred. No. 6.3e-08;
; Matches 177; Conservative 0; Mismatches 159; Indels 3; Gaps 1;
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; QY 554 GGGCCCCAGCTGCACCTACGGCTGGGGCGGACCCATCCGGCTGGCGCACTGTACACCTCC 613
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; DB 1 GCGGCGCTCCAGAGCGGCGCGGCACTACCTGTGGCGCATCAAGCGCTGCGCGGCTC 60
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; QY 614 GCGCCCCAGCGCTCTCCAGCTGCTTCTTCGCGCATCCGTCGCGACGCGCTCGTGACTGC 673
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; DB 61 TACTGCAAGTGGGATCGGCTTCCACCTCCAGGCGCTCCCGACGCGCGCATCGGGGC 120
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; QY 674 GCGCGGGGCCAGAGCGCGCACAGTTGTGTGGAGATCAAGGAGTCGCTTCGCGGACCGTG 733
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; DB 121 GCGCAGCGGACACCGCGACAGCCTGTGGAGCTCTCGCCGCTGGAGCGGCGCTGTG 180
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; QY 734 GCCATCAAGGCGTGCACAGCGTGGCGGTACCTTCTGCATGGGCGCGCACGGAAGATGCAG 793
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DB 181 AGCATCTTCGGCGTGCCCGCGGTTCTTCGTGGCCATGAGCAGCAAGGCAAGTCTCTAT 240
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; QY 794 GGGCTGCTTCAGTACTCGGAGGAAGACTGTGCTTTTCGAGGAGGAGATCCCGCCFAGATGC 853
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; DB 241 GGCTCG---CCCTTCTTCCACCGATGACTGCACGTTCAAGGAGATTCCTCTCTCCCAACAC 297
;
; QY 854 TCAATGTGTACCGATCCGAGAAGCACCGCTCCCGGTC 892
; | | | | | | | | | | | | | | | | | | | | | | | | | | | |
; DB 298 TACACGCGCTACGAGTCTTACAAGTACCGCGGATGTC 336
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; RESULT 11
; US-08-478-486F-5
; Sequence 5, Application US/08478486F
; Patent No. 6432702
; GENERAL INFORMATION:
; APPLICANT: CLAUDIO BASILICO
; APPLICANT: DANIELA TALARICO
; TITLE OF INVENTION: MAMMALIAN GROWTH FACTOR
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Darby & Darby P.C.
; STREET: 805 Third Avenue
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Diskette, 3+ inch.
; MEDIUM TYPE: 1.44 MB storage
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC/MS-DOS
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/478,486F
; FILING DATE: June 7, 1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/187,780
; FILING DATE: January 25, 1994
; APPLICATION NUMBER: 07/901,705
; FILING DATE: June 22, 1992
; APPLICATION NUMBER: 07/806,771
; FILING DATE: December 6, 1991
; APPLICATION NUMBER: 07/177,506
; FILING DATE: April 4, 1988
; APPLICATION NUMBER: 07/062,925
; FILING DATE: June 16, 1987
; ATTORNEY/AGENT INFORMATION:
; NAME: Howard M. Frankfort
; REGISTRATION NUMBER: 32,613
; REFERENCE/DOCKET NUMBER: 5986/13586-US7
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 527-7700
; TELEFAX: (212) 753-6237
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Genomic DNA
; DESCRIPTION: This sequence
; NAME/KEY:
; LOCATION:
; IDENTIFICATION METHOD:
; OTHER INFORMATION: This sequence
; OTHER INFORMATION: corresponds to K-FGF-140 and can be
; OTHER INFORMATION: found on page 11, lines 39-47 and page
; OTHER INFORMATION: 12, lines 1-31, in the application, as
; OTHER INFORMATION: filed.
; US-08-478-486F-5

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Query Match      3.2%; Score 68.6; DB 4; Length 423;
Best Local Similarity 52.2%; Pred. No. 6.3e-08;
Matches 177; Conservative 0; Mismatches 159; Indels 3; Gaps 1;

QY 554 GGGCCCCAGCTGCACTAGGCTGGGGGACCCCATCCGCTGGCGCACCTGTACACCTCC 613
DB 1 GCGGCCCTCCAGAGCGGCGCGGACTACTGCTGGGCATCAAGCGGCTGCGGCGGCTC 60
QY 614 GGGCCCCACGGCTCTCAGCTGTTCTCGGCATCGCTGCGGACGCGGCTGCGGACTGC 673
DB 61 TACTGCAACGTGGCATCGCTTCCACTCCAGCGCTCCCGACGCGCGCATCGGCGGC 120
QY 674 GCGGGGGGCGAGCGCGCACAGTTTCTGTGAGATCAAGGAGTCTGTCTGGGACCGTG 733
DB 121 GCGCAGCGGACACCGCGGAGCTGCTGTGAGCTCTCGCCGCTGAGCGGGGCTGTG 180
QY 734 GCCATCAAGGGGTCACAGCGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 793
DB 181 AGCATCTTCGGCGGTGGCGCAGCGGTTCTGCTGGCCATGACGCAAGGCAAGCTCTAT 240
QY 794 GGGCTGCTTCACTACTCGGAGGAAGACTGTCTTTCGAGGAGGAGATCCGCCCCAGATGGC 853
DB 241 GGCTCG---CCCTTCTTCCCGATGAGTGCACGTTCAAGGAGATTCTCTTCCCAACAC 297
QY 854 TACAATGTGTACCGATCCGAGAACACCGGCTCCCGGTC 892
DB 298 TACAACGCTACGAGTCTTACAAGTACCGCGGATGTTTC 336

RESULT 12
US-08-804-227C-7
; Sequence 7, Application US/08804227C
; Patent No. 5876991
; GENERAL INFORMATION:
; APPLICANT: DeHoff, Bradley S.
; APPLICANT: Kuhlstoss, Stuart A.
; APPLICANT: Rostek, Paul R., Jr.
; APPLICANT: Sutton, Kimberly L.
; TITLE OF INVENTION: POLYKETIDE SYNTHASE GENES
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: THOMAS G. PLANT 1501
; STREET: LILLY CORPORATE CENTER
; CITY: INDIANAPOLIS
; STATE: IN
; COUNTRY: USA
; ZIP: 46285
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: ASCII(DOS) Text only
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/804,227C
; FILING DATE: February 21, 1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Plant, Thomas, G.
; REGISTRATION NUMBER: 35,784
; REFERENCE/DOCKET NUMBER: X-8231
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 317-276-2459
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4437 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 350..14002
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FEATURE:
NAME/KEY: CDS
LOCATION: 14046..20036
FEATURE:
NAME/KEY: CDS
LOCATION: 20110..31284
FEATURE:
NAME/KEY: CDS
LOCATION: 31329..36071
FEATURE:
NAME/KEY: CDS
LOCATION: 36155..41830
US-08-804-227C-7

Query Match      2.9%; Score 61.8; DB 2; Length 44377;
Best Local Similarity 47.5%; Pred. No. 2.8e-05;
Matches 183; Conservative 0; Mismatches 202; Indels 0; Gaps 0;

QY 403 CGCGGCCAGCTCCCGCACCCCATCGCGGAGCTGGCGGAGAGCCCGAGGAGGTGC 462
DB 27534 CACGCGACGGCTGGGCGCCGACACACCCCGTGGCTGGCGGACACGCGTGTGCGGTC 27593
QY 463 CATGCGAGCGGCTGTGTGTGTGTCACGTATGATCTTGGCGGCGCTCTGGCTGGCGCT 522
DB 27594 GCCTCTCTGCGCGGCGCGCTTTCGCCGACCTGGCGCTCTGGCGCGGCGCCAGCGG 27653
QY 523 GCGCGGCGCGCCCTCGCCTTCTCGGACGCGGGGCGCCACGTGCACGTACGGCTGGGCGA 582
DB 27654 CACGCGCGGCTCGAGGAGCTCACCTTGGCGCGCCCTGTGTCTGCGCGGCTCCGGGG 27713
QY 583 CCCATCCGCTGGGCGACCTGTACACCTTGGCGGCGCCCGAGGCTCTCCAGCTCTTCT 642
DB 27714 TGTCCGCTGCGGCTGAACGTTCGGCGCGCCCGGCGGACGCGCGCTTTCGCGCT 27773
QY 643 GGCATCCGTGCGAGCGGCTGTGTGTGTGCTGCGCGGCGCGAGCGCGCACAGTTTGT 702
DB 27774 GCAGCGCGCGCGGCGCGGCGCGGCTGACCTGACCGCTGACCGCGGCGGCTTGTCTAC 27833
QY 703 GGATCAAGCGAGTCTGCTTGGGAGCGGCGGCGCATCAAGGCGGTGCACAGCGTGGCGTA 762
DB 27834 GCAGGACACGCGGCGGCGGCGGCGCTCGGCGGCGCACCCCGCGCGCGCGGAACA 27893
QY 763 CCTCTGATGGGCGCGGCGGCGGCAAG 787
DB 27894 ACTGGACATCGCGACTTCTACCAG 27918

RESULT 13
US-08-804-198-1
; Sequence 1, Application US/08804198
; Patent No. 5945320
; GENERAL INFORMATION:
; APPLICANT: Burgett, Stanley G.
; APPLICANT: Kuhlstoss, Stuart A.
; APPLICANT: Rao, Nagaraja R.
; APPLICANT: Richardson, Mark A.
; APPLICANT: Rostek, Paul R., Jr.
; TITLE OF INVENTION: PLATENOLIDE SYNTHASE GENE
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PAUL R. CANTRELL 1138
; STREET: LILLY CORPORATE CENTER
; CITY: INDIANAPOLIS
; STATE: IN
; COUNTRY: USA
; ZIP: 46285
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: Macintosh 7.0
; SOFTWARE: Microsoft Word 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/804,198
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;  
; FILING DATE: 435  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: CANTRELL, PAUL R.  
; REGISTRATION NUMBER: 36,470  
; REFERENCE/DOCKET NUMBER: P9113  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 317-276-3885  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 44377 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 350..14002  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 14046..20036  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 20110..31284  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 31329..36071  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 36155..41830  
; US-08-804-198-1

Query Match 2.9%; Score 61.8; DB 2; Length 44377;  
Best Local Similarity 47.5%; Pred. No. 2 8e-05;  
Matches 183; Conservative 0; Mismatches 202; Indels 0; Gaps 0;  
QY 403 GCGCGCCAGCCTCCGACCCCATCGCGAGCTGCGCGAGAGAGCCCGAGAGGAGTGC 462  
Db 27534 CACCGCACGGCTGGCGCGCACACACCCCGTGGCTGGCGCACCGCTGCTGGGTC 27593  
QY 463 CATCGGAGCGGTGTGTGTGTGTCACGTATGATCTGCGCGCGCTCTGGCTGGCGGT 522  
Db 27594 GCGCTGTGCGCGCGCGCTTCTGGCGAGCTGGCGCTTGGCGCGCGCGCGAGGCGG 27653  
QY 523 GCGCGCGCGCGCTCGCTTCTCGGACGGCGCGCGCGCTGACCTACGCTGCGCGCA 582  
Db 27654 CACCGCGCGCTCGAGGAGCTCACCTGCGCGCGCGCTGCTGCTGCGCGCGTCCG 27713  
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QY 643 GCGCATCGCTCGCGACGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 702  
Db 27774 GCACGCGCGCGCGCGCGCGCGCGCGCGCTGCGAGCTGCGAGCGCGCGCTGCTAC 27833  
QY 703 GGAGATCAAGCAGCTGCTGCTGCGGACCGCTGCGGACCAAGGCGGTGACAGCGTGC 762  
Db 27834 GCAGGACAGCGA 27893  
QY 763 CCTCTGATGGCGCGCGCGCGCAAG 787  
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RESULT 14  
US-09-926-958-1  
; Sequence 1, Application US/09026958  
; Patent No. 6150098  
; GENERAL INFORMATION:  
; APPLICANT: Zhang, Ke  
; APPLICANT: Pacific, Robert  
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR IDENTIFYING

;  
; TITLE OF INVENTION: NOVEL SECRETED MAMMALIAN POLYPEPTIDES  
; NUMBER OF SEQUENCES: 11  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Angen Inc.  
; STREET: One Angen Center Drive  
; CITY: Thousand Oaks  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 91320-1789  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/026,958  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Winter, Robert B.  
; REFERENCE/DOCKET NUMBER: A-522  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1656 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 38..643  
; US-09-026-958-1

Query Match 2.6%; Score 56.2; DB 3; Length 1656;  
Best Local Similarity 49.0%; Pred. No. 0.00015;  
Matches 179; Conservative 0; Mismatches 183; Indels 3; Gaps 1;  
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QY 631 CAGCTGCTCTCTGCGCATCCGTGCGGAGCGGTGCTGAGACTGCGCGCGGGCCAGAGCG 690  
Db 301 GCGATTCACCTCAGAGTGTGCGCGAGCGCGCTGCGCGCGGTGTGCGCGGAGACGAG 360  
QY 691 GCACAGTTTGTGGAGATCAAGGAGTCCGTCTGCGGACCGTGGCCATCAAGGCGTCA 750  
Db 361 GCAGGCTTCTGGAGCTCTCTCGGTGCGAGGGGTGTGTGAGCATCTTCGAGTGGC 420  
QY 751 CAGCTGCGGTACCTCTGTCATGGCGCGGACGCGCAAGATGCGAGGGCTGCTTCACTATC 810  
Db 421 CAGCGGTCTCTGCTGGCCATGAGCAGCGGGCAAGCTCTTCGGTGTGCTT---TTCTT 477  
QY 811 GGAGAAGACTGTGCTTTCGAGGAGGAGATCGGCCACATGGCTACATGTCTACCGATC 870  
Db 478 TACCGAGAGTGTAAATTTTAAAGAAATACCTTCGCCCAACAACTACAATGTCTAGAGTC 537  
QY 871 CGAGAAGACCCCGCTCCCGGTCTCCCTGAGCAGTGCCCAAGACAGCGGAGCTGTATCAAG 930  
Db 538 CTACGCATACCCGGGCTGTTTCATGCGCCCTCAGTAAAGAACGCGCGGACCAAGAGGAA 597  
QY 931 CAGAG 935  
Db 598 CCGAG 602

RESULT 15  
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; Sequence 1, Application US/08809286B  
; Patent No. 6011144  
; GENERAL INFORMATION:  
; APPLICANT:  
; TITLE OF INVENTION: Process for manufacturing polyhydroxylic

Search completed: May 11, 2003, 05:01:10  
Job time : 328 secs

Query Match	2.6%	Score 54.6;	DB 3;	Length 2849;
Best Local Similarity	47.5%;	Pred. No. 0.00049;		
Matches 199; Conservative	0;	Mismatches 214;	Indels	6; Gaps 1;

  

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QY	406	CGCCAGCCCTCCGCAACCCCCATCCCGGAGCTGCGCCGAGAGCCCCAGGAGGTGCCAT	465
Db	2473	GCGCTGGCGCCGCCGCCGACCCTTCGCCCGCGCACCCCGCATCGCCCGCGGTGCGC	2532
QY	466	GCGGAGCGGTGTGTGTGTGTGCACGTATGSATCCTGGCCCGCCTCTGGCTTGGCGGTGCG	525
Db	2533	TACAATGACGTCTTCGCGAGCGAGCCCGCATCGTCAACGAGAGCTGCATTGGCGCGGA	2592
QY	526	CGSGCGCCCTCCGCTTCTCGGACGGGGGCCCAAGTGCACTACGGCTGGGGCGAGCC	585
Db	2593	CCACCAACTGCTGCCCGGTACGACGCGCTGGCGGAGACCTACGACGCCACCGGGCCT	2652
QY	586	CATCCGCTGG-----GCACCTGTACACCTTCGGGCCCCCACGGCTCTCCAGCTGCTTT	639
Db	2653	CTTCGACATCGCGCCGTGCTCGAGGACATTCGCGCCGCTGCGCGGCTCGGCACCT	2712
QY	640	CCTCGCATCGTCCCGCACGCGCTGTGTGACTGCGCGGGGCCAGAGCGCGCACGTTT	699
Db	2713	CCTCGACTCGGCTGCGGCGCCGGGAGCGGTGCGCGCGCGCTTCTCTGACCGCGGTG	2772
QY	700	GCTGGAGATCAAGCAGTGCCTCTGCGGACCGTGGCCATCAAGGCGGTGCACAGCTGC	758
Db	2773	GCGGTCACCGGGTGACATTTCTGCCGGCCATGCTCGCCCTCGCGGCGGCTACGTCC	2831

GenCore version 5.1.4\_p5\_4578  
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OM nucleic - nucleic search, using sw model

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(without alignments)  
9189.136 Million cell updates/sec

Title: US-09-924-647-1

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Gapop 10.0 , Gapext 1.0

Searched: 783854 seqs, 621352466 residues

Total number of hits satisfying chosen parameters: 1567708

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published\_Applications\_NA:\*

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3: /cgn2\_6/ptodata/2/pubpna/US06\_NEW\_PUB.seq:  
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14: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
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2	2137	100.0	2137	9	US-09-905-291A-58
3	2137	100.0	2137	9	US-10-066-500-85
4	2137	100.0	2137	9	US-09-902-853-58
5	2137	100.0	2137	9	US-09-907-824-58
6	2137	100.0	2137	9	US-09-907-841-58
7	2137	100.0	2137	9	US-09-904-011-58
8	2137	100.0	2137	9	US-09-906-742-58
9	2137	100.0	2137	9	US-09-906-838-58
10	2137	100.0	2137	9	US-09-907-613-58
11	2137	100.0	2137	9	US-09-907-942-58
12	2137	100.0	2137	9	US-10-002-796-85
13	2137	100.0	2137	9	US-10-066-273-85
14	2137	100.0	2137	9	US-10-066-494-85
15	2137	100.0	2137	9	US-09-904-820-58
16	2137	100.0	2137	9	US-09-904-859-58
17	2137	100.0	2137	9	US-09-909-204-58
18	2137	100.0	2137	9	US-09-904-786-58
19	2137	100.0	2137	9	US-09-906-646-58

20	2137	100.0	2137	9	US-09-906-700-58	Sequence 58, Appl
21	2137	100.0	2137	9	US-10-066-269-85	Sequence 85, Appl
22	2137	100.0	2137	9	US-09-902-903-58	Sequence 58, Appl
23	2137	100.0	2137	9	US-09-903-749A-58	Sequence 58, Appl
24	2137	100.0	2137	9	US-09-903-786-58	Sequence 85, Appl
25	2137	100.0	2137	9	US-10-066-193-85	Sequence 85, Appl
26	2137	100.0	2137	9	US-10-066-211-85	Sequence 58, Appl
27	2137	100.0	2137	9	US-09-902-736-58	Sequence 58, Appl
28	2137	100.0	2137	9	US-09-904-116-58	Sequence 58, Appl
29	2137	100.0	2137	9	US-09-904-956-58	Sequence 58, Appl
30	2137	100.0	2137	9	US-09-907-794-58	Sequence 58, Appl
31	2137	100.0	2137	9	US-09-902-692-58	Sequence 58, Appl
32	2137	100.0	2137	9	US-09-903-520-58	Sequence 58, Appl
33	2137	100.0	2137	9	US-09-903-943-58	Sequence 58, Appl
34	2137	100.0	2137	9	US-09-904-462-58	Sequence 58, Appl
35	2137	100.0	2137	9	US-09-905-056-58	Sequence 58, Appl
36	2137	100.0	2137	9	US-09-907-925-58	Sequence 58, Appl
37	2137	100.0	2137	9	US-09-904-553-58	Sequence 58, Appl
38	2137	100.0	2137	9	US-09-905-381-58	Sequence 58, Appl
39	2137	100.0	2137	9	US-09-909-064-58	Sequence 58, Appl
40	2137	100.0	2137	9	US-09-905-088-58	Sequence 58, Appl
41	2137	100.0	2137	9	US-09-907-575-58	Sequence 58, Appl
42	2137	100.0	2137	9	US-09-902-759-58	Sequence 58, Appl
43	2137	100.0	2137	9	US-09-905-075-58	Sequence 58, Appl
44	2137	100.0	2137	9	US-09-902-634-58	Sequence 58, Appl
45	2137	100.0	2137	9	US-09-902-713-58	Sequence 58, Appl

#### ALIGNMENTS

RESULT 1

US-09-924-647-1

; Sequence 1, Application US/09924647

; Patent No. US20020155543A1

; GENERAL INFORMATION:

; APPLICANT: Adams, Sean

; APPLICANT: Goddard, Audrey

; APPLICANT: Gurney, Austin L

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tomlinson, Elizabeth

; APPLICANT: Yu, Xing Xian

; TITLE OF INVENTION: FIBROBLAST GROWTH FACTOR-19 (FGF-19) NUCLEIC ACIDS AND  
POLYPEPTIDES AND METHODS FOR THE TREATMENT OF OBESITY

; TITLE OF INVENTION: AND RELATED DISORDERS

; FILE REFERENCE: P1219P3

; CURRENT APPLICATION NUMBER: US/09/924,647

; CURRENT FILING DATE: 2002-04-01

; PRIOR APPLICATION NUMBER: US 60/066,840

; PRIOR FILING DATE: 1997-11-25

; PRIOR APPLICATION NUMBER: US 09/767,609

; PRIOR FILING DATE: 2001-01-22

; PRIOR APPLICATION NUMBER: US 09/158,342

; PRIOR FILING DATE: 1998-09-21

; PRIOR APPLICATION NUMBER: PCT/US98/25190

; PRIOR FILING DATE: 1998-11-25

; PRIOR APPLICATION NUMBER: US 09/522,342

; PRIOR FILING DATE: 2000-03-09

; PRIOR APPLICATION NUMBER: US 09/284,663

; PRIOR FILING DATE: 1999-04-15

; PRIOR APPLICATION NUMBER: PCT/US99/20594

; PRIOR FILING DATE: 1999-09-08

; PRIOR APPLICATION NUMBER: PCT/US99/21090

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/30999

; PRIOR FILING DATE: 1999-12-20

; PRIOR APPLICATION NUMBER: PCT/US00/04414

; PRIOR FILING DATE: 2000-02-22

; NUMBER OF SEQ ID NOS: 20

; SEQ ID NO 1

; LENGTH: 2137

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-924-647-1

Query Match 100.0%; Score 2137; DB 9; Length 2137;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	GCTCCAGCCAAAGAACCTCGGGGCGCTGGCGGTGGGGAGGAGTTCCCGAAACCGCGC	60
Db	1	GCTCCAGCCAAAGAACCTCGGGGCGCTGGCGGTGGGGAGGAGTTCCCGAAACCGCGC	60
Qy	61	CGCTAAGCAGAGGCTCTCTCCCGCAGATCCGAAGCGCTGGCGGGGTACACCCGGCT	120
Db	61	CGCTAAGCAGAGGCTCTCTCCCGCAGATCCGAAGCGCTGGCGGGGTACACCCGGCT	120
Qy	121	GGGACAAAGAGCCGCGCTGCTGCCCCGGGCGGGAGGGGCTGGGGCGCG	180
Db	121	GGGACAAAGAGCCGCGCTGCTGCCCCGGGCGGGAGGGGCTGGGGCGCG	180
Qy	181	AGGCGGGGTGTAGTGGGTGTGCGGGGGCGGAGGCTTGAATCAATCCGATAAGAAA	240
Db	181	AGGCGGGGTGTAGTGGGTGTGCGGGGGCGGAGGCTTGAATCAATCCGATAAGAAA	240
Qy	241	TGCTCGGGGTGTCTGGGACACTACCCGTGGGCGCCGTAAGCGCTACTATTAAGGCTGC	300
Db	241	TGCTCGGGGTGTCTGGGACACTACCCGTGGGCGCCGTAAGCGCTACTATTAAGGCTGC	300
Qy	301	CGGCGCGAGCGCGCGCGCTCAGAGCAGAGCGCTGCGTCCAGGATCAGAGGCCACGA	360
Db	301	CGGCGCGAGCGCGCGCGCTCAGAGCAGAGCGCTGCGTCCAGGATCAGAGGCCACGA	360
Qy	361	CCATCCCAACCCGGCACTCAGCGCCGCGAGCGATCCCGTCCGCGCCAGGCTCCCGC	420
Db	361	CCATCCCAACCCGGCACTCAGCGCCGCGAGCGATCCCGTCCGCGCCAGGCTCCCGC	420
Qy	421	ACCCCAATCGCGGAGCTGCGCGCAGAGCCCGAGGAGTGCATGCGGAGCGGTGTGT	480
Db	421	ACCCCAATCGCGGAGCTGCGCGCAGAGCCCGAGGAGTGCATGCGGAGCGGTGTGT	480
Qy	481	GGTGGTCCAGTATGATGCTGCGCGGCTCTGGCTGGCGGTGGCGGGCGCCCTCGC	540
Db	481	GGTGGTCCAGTATGATGCTGCGCGGCTCTGGCTGGCGGTGGCGGGCGCCCTCGC	540
Qy	541	CTTCTCGAGCGGGGCGCCAGCTGACACGCTGGGCGGACCCCATCCGCTCGCGCA	600
Db	541	CTTCTCGAGCGGGGCGCCAGCTGACACGCTGGGCGGACCCCATCCGCTCGCGCA	600
Qy	601	CTGTACACCTCGCGGCGCCACGGGCTCTCCAGCTGCTTCTGCGCATCGCTGCGGACGG	660
Db	601	CTGTACACCTCGCGGCGCCACGGGCTCTCCAGCTGCTTCTGCGCATCGCTGCGGACGG	660
Qy	661	CGTGGAGTGGCGGGGCGCCAGAGCGGCGACAGTTTGTGCGAGATCAAGGACGTCGC	720
Db	661	CGTGGAGTGGCGGGGCGCCAGAGCGGCGACAGTTTGTGCGAGATCAAGGACGTCGC	720
Qy	721	TCTGCGACCGTGGCCATCAAGCGGTGACAGCGTCCGCTACCTCTGCGATGGCGCGCA	780
Db	721	TCTGCGACCGTGGCCATCAAGCGGTGACAGCGTCCGCTACCTCTGCGATGGCGCGCA	780
Qy	781	CGGCAAGATGCAGGGGCTGCTTCACTACGAGGAGAGCTGTGCTTCGAGGAGGAGAT	840
Db	781	CGGCAAGATGCAGGGGCTGCTTCACTACGAGGAGAGCTGTGCTTCGAGGAGGAGAT	840
Qy	841	CGGCGCAGATGGGTACAAATGTACCGATCCGAGAGACCGCTCCGGTCTCCCTGAG	900
Db	841	CGGCGCAGATGGGTACAAATGTACCGATCCGAGAGACCGCTCCGGTCTCCCTGAG	900
Qy	901	CAGTGCACAAACAGCGGAGCTGTACAAGACAGAGGCTTCTCCACTCTCATTTCCCT	960
Db	901	CAGTGCACAAACAGCGGAGCTGTACAAGACAGAGGCTTCTCCACTCTCATTTCCCT	960
Qy	961	GCCCATGCTGCCATGTGCTCCAGAGGAGCTTGAGGACCTCAGGGGCGCACTTGAATCTGA	1020
Db	961	GCCCATGCTGCCATGTGCTCCAGAGGAGCTTGAGGACCTCAGGGGCGCACTTGAATCTGA	1020

Qy	1021	CATGTTCTCTTCGCCCCCTGGAGACCGACAGCATGGACCCATTTGGGCTTGTACCGGACT	1080
Db	1021	CATGTTCTCTTCGCCCCCTGGAGACCGACAGCATGGACCCATTTGGGCTTGTACCGGACT	1080
Qy	1081	GGAGGCGGTGAGGAGTCCAGCTTTGAGAAGTAACTGAGACCATGCGCGGGCTTCTTCAC	1140
Db	1081	GGAGGCGGTGAGGAGTCCAGCTTTGAGAAGTAACTGAGACCATGCGCGGGCTTCTTCAC	1140
Qy	1141	TGCTGCCAGGGGCTGTGTACCTGCAGCTGGGGAGCTGCTTACAAGAACAGTCTCTG	1200
Db	1141	TGCTGCCAGGGGCTGTGTACCTGCAGCTGGGGAGCTGCTTACAAGAACAGTCTCTG	1200
Qy	1201	AGTCCAGGTTCTGTATTAGCTTTTAGGAAGAACATCTAGAGTTGTACATATTTCAGAGTTT	1260
Db	1201	AGTCCAGGTTCTGTATTAGCTTTTAGGAAGAACATCTAGAGTTGTACATATTTCAGAGTTT	1260
Qy	1261	TCCATTGGCAGTGCCAGTTTCTAGCCAAATAGACTTGTGATCAATAACATTTGAAGCTG	1320
Db	1261	TCCATTGGCAGTGCCAGTTTCTAGCCAAATAGACTTGTGATCAATAACATTTGAAGCTG	1320
Qy	1321	TAGCTTGCAGGCTGTGCTGGGCGCCCATCTCTGCTCCCTCGAGGTTGCTGGGACAAAGCT	1380
Db	1321	TAGCTTGCAGGCTGTGCTGGGCGCCCATCTCTGCTCCCTCGAGGTTGCTGGGACAAAGCT	1380
Qy	1381	GCTGCACTGTCTCAGTTCTGCTTGAATACCTCCATCGATGGGAACTCACTTCTCTTTGGA	1440
Db	1381	GCTGCACTGTCTCAGTTCTGCTTGAATACCTCCATCGATGGGAACTCACTTCTCTTTGGA	1440
Qy	1441	AAATTTCTTATGCAAGCTGAAATTTCTAAATTTTCTCATCACTTCCCAGGAGCAGC	1500
Db	1441	AAATTTCTTATGCAAGCTGAAATTTCTAAATTTTCTCATCACTTCCCAGGAGCAGC	1500
Qy	1501	CAGAAGACAGGCACTAGTTTAAATTTTTCAGAACAGGTGATCCACTCTGTAAAACAGCAGG	1560
Db	1501	CAGAAGACAGGCACTAGTTTAAATTTTTCAGAACAGGTGATCCACTCTGTAAAACAGCAGG	1560
Qy	1561	TAAATTTCACTCAACCCCATGTGGGAATGATCTATATCTCTACTTCCAGGGACCATTTG	1620
Db	1561	TAAATTTCACTCAACCCCATGTGGGAATGATCTATATCTCTACTTCCAGGGACCATTTG	1620
Qy	1621	CCCTTCCCAATCCCTCCAGGCCAGAACTGACCTGGAGCAGGCATGGCCACCCAGGCTTCA	1680
Db	1621	CCCTTCCCAATCCCTCCAGGCCAGAACTGACCTGGAGCAGGCATGGCCACCCAGGCTTCA	1680
Qy	1681	GGAGTAGGGGAAGCCTGGAGCCCACTCCAGCCCTGGGACAACTTGAGAAATTTCCCCCTGA	1740
Db	1681	GGAGTAGGGGAAGCCTGGAGCCCACTCCAGCCCTGGGACAACTTGAGAAATTTCCCCCTGA	1740
Qy	1741	GGCCAGTTCTGTATGATGCTGCTTGAGAAATAACTTGTCTGCCGCTGTCACCTGCTT	1800
Db	1741	GGCCAGTTCTGTATGATGCTGCTTGAGAAATAACTTGTCTGCCGCTGTCACCTGCTT	1800
Qy	1801	CCATCTCCAGCCCAACAGCCCTCTGCCACCTCACATGCTCCCATGGATTGGGGCTT	1860
Db	1801	CCATCTCCAGCCCAACAGCCCTCTGCCACCTCACATGCTCCCATGGATTGGGGCTT	1860
Qy	1861	CCCAGGCCCCCACCCTTATGTCAACCTGCACTTCTTGTTCAAAATCAGGAAAGAAAG	1920
Db	1861	CCCAGGCCCCCACCCTTATGTCAACCTGCACTTCTTGTTCAAAATCAGGAAAGAAAG	1920
Qy	1921	ATTTGAAGACCCCAAGTCTTGTCAATTAATTTTATGAGTAATTTATTTTTCATA	1980
Db	1921	ATTTGAAGACCCCAAGTCTTGTCAATTAATTTTATGAGTAATTTATTTTTCATA	1980
Qy	1981	GAACCTTTTCCAGGACCTTGGTTTCCAACTGATATTTATGAGTAATTTATTTTTCATA	2040
Db	1981	GAACCTTTTCCAGGACCTTGGTTTCCAACTGATATTTATGAGTAATTTATTTTTCATA	2040
Qy	2041	TGTACATCTCTTATTTTCTTACATTTATTTATGCCCCCAATTTATTTATTTATTTAAGT	2100
Db	2041	TGTACATCTCTTATTTTCTTACATTTATTTATGCCCCCAATTTATTTATTTATTTAAGT	2100

QY 2101 GAGGTTGTTTGTATATTAATAATGAGTTTCTTTCT 2137  
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Db 2101 GAGGTTGTTTGTATATTAATAATGAGTTTCTTTCT 2137

RESULT 2

US-09-905-291A-58  
; Sequence 58, Application US/09905291A  
; Patent No. US20020160374A1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Bolstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kijavlin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/905.291A  
; CURRENT FILING DATE: 2001-07-12  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08  
; PRIOR APPLICATION NUMBER: PCT/US99/20944  
; PRIOR FILING DATE: 1999-09-13  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/21547  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/23089  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: PCT/US99/28214  
; PRIOR FILING DATE: 1999-11-29  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: 1999-11-30  
; PRIOR APPLICATION NUMBER: PCT/US99/28564  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/28565  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: 1999-12-16  
; PRIOR APPLICATION NUMBER: PCT/US99/30911  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US99/30999  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US00/00219

; PRIOR FILING DATE: 2000-01-05  
; NUMBER OF SEQ ID NOS: 423  
; SEQ ID NO 58  
; LENGTH: 2137  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-905-291A-58  
  
Query Match 100.0%; Score 2137; DB 9; Length 2137;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
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Db 1 GCTCCAGCAAGAACCTCGGGCGCGCTGCGGGTGGGAGGAGTTCCCGCAAAATCCGGC 60  
  
QY 61 CGCTAAGCGAGGCTCTCTCCCGCAGATCCGAAGCGCTGGCGGGGTCTACCTCGGCT 120  
|||||  
Db 61 CGCTAAGCGAGGCTCTCTCCCGCAGATCCGAAGCGCTGGCGGGGTCTACCTCGGCT 120  
  
QY 121 GGGACAAGAACCGCGCGCTGCTGCCCGGGCCCGGGAGGGGCTGGGGCTGGGGCCGG 180  
|||||  
Db 121 GGGACAAGAACCGCGCGCTGCTGCCCGGGCCCGGGAGGGGCTGGGGCTGGGGCCGG 180  
  
QY 181 AGGCGGGGTGTCAGTGGGTGTGTGCGGGGGCGGAGGCTTTGATGCAATCCCGATAAGAA 240  
|||||  
Db 181 AGGCGGGGTGTCAGTGGGTGTGTGCGGGGGCGGAGGCTTTGATGCAATCCCGATAAGAA 240  
  
QY 241 TGCTCGGGTGTCTGGGCACCTACCGTGGGGCCCGTAAGGGCTTACTATATAAGCTGC 300  
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Db 241 TGCTCGGGTGTCTGGGCACCTACCGTGGGGCCCGTAAGGGCTTACTATATAAGGGCTGC 300  
  
QY 301 CGGCGCGGAGCGCGCGCGCTCAGAGCAGAGCGCTGCTCCAGCATCTAGGCGCAGCA 360  
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Db 301 CGGCGCGGAGCGCGCGCGCTCAGAGCAGAGCGCTGCTCCAGCATCTAGGCGCAGCA 360  
  
QY 361 CCATCCCAACCGCGCACTCACAGCCCGCGAGCGCATCCCGTGGCGCGCGCGCGCGCGC 420  
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Db 361 CCATCCCAACCGCGCACTCACAGCCCGCGAGCGCATCCCGTGGCGCGCGCGCGCGCGC 420  
  
QY 421 ACCCGCATCGCGGAGCTGCGCGGAGAGCCCGAGAGAGTGGCATGCGGAGCGGTTGT 480  
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Db 421 ACCCGCATCGCGGAGCTGCGCGGAGAGCCCGAGAGAGTGGCATGCGGAGCGGTTGT 480  
  
QY 481 GGTGTCCACGTATGGATCTCGCGCGCTCTGGGTGGCGGTGGCGCGCGCGCGCGCGC 540  
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Db 481 GGTGTCCACGTATGGATCTCGCGCGCTCTGGGTGGCGGTGGCGCGCGCGCGCGCGC 540  
  
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|||||  
Db 541 CTTCTCGGACGCGGGGCGCCACGTGCACCTACGGCTGGGGCGACCCCATCCGCTTGGCGCA 600  
  
QY 601 CCTGTACACCTCCGGCGCCCGCGGGCTCTCCAGCTGCTTCTTCCGCGCATCCGTTCCACGG 660  
|||||  
Db 601 CCTGTACACCTCCGGCGCCCGCGGGCTCTCCAGCTGCTTCTTCCGCGCATCCGTTCCACGG 660  
  
QY 661 CGTGTGGACTCGCGCGGGGCGCAGAGCGCGCACAGTTTGTGGAGATCAAGCGAGTCCG 720  
|||||  
Db 661 CGTGTGGACTCGCGCGGGGCGCAGAGCGCGCACAGTTTGTGGAGATCAAGCGAGTCCG 720  
  
QY 721 TCTGCGGACCGTGGGCATCAAGGGGTGTCACAGCGTGGCGTACCTGTGATGGGCGCGCA 780  
|||||  
Db 721 TCTGCGGACCGTGGGCATCAAGGGGTGTCACAGCGTGGCGTACCTGTGATGGGCGCGCA 780  
  
QY 781 CGGCAAGATGCAAGGGCTGCTTTCAGTACTCGGAGGAAGACTGTGCTTTTCGAGAGAGAGAT 840  
|||||  
Db 781 CGGCAAGATGCAAGGGCTGCTTTCAGTACTCGGAGGAAGACTGTGCTTTTCGAGAGAGAGAT 840  
  
QY 841 CGGCGCGAGATGCTACAATGTGTACCGATCCCGAAGACACCGCGCTCCCGCTTCTCTGAG 900  
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Db 841 CGGCGCGAGATGCTACAATGTGTACCGATCCCGAAGACACCGCGCTCCCGCTTCTCTGAG 900  
  
QY 901 CAGTCCCAACACGCGCGAGCTGTACAAGAACAGAGGCTTTTCTTCCACTCTCTCAATTCTCT 960



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; PRIOR FILING DATE: 1998-02-09  
; PRIOR APPLICATION NUMBER: 60/074092  
; PRIOR FILING DATE: 1998-02-09  
; PRIOR APPLICATION NUMBER: 60/079294  
; PRIOR FILING DATE: 1998-03-25  
; PRIOR APPLICATION NUMBER: 60/081049  
; PRIOR FILING DATE: 1998-04-08  
; PRIOR APPLICATION NUMBER: 60/095998  
; PRIOR FILING DATE: 1998-08-10  
; PRIOR APPLICATION NUMBER: 60/097000  
; PRIOR FILING DATE: 1998-08-18  
; PRIOR APPLICATION NUMBER: 60/099601  
; PRIOR FILING DATE: 1998-09-09  
; PRIOR APPLICATION NUMBER: 60/099803  
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; PRIOR FILING DATE: 1998-09-10  
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; PRIOR FILING DATE: 1998-09-17  
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; PRIOR FILING DATE: 1998-09-24  
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; PRIOR FILING DATE: 1998-10-28  
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; PRIOR FILING DATE: 1998-11-20  
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; PRIOR APPLICATION NUMBER: 60/145070  
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; PRIOR APPLICATION NUMBER: 60/145698  
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; PRIOR APPLICATION NUMBER: PCT/US98/18824  
; PRIOR FILING DATE: 1998-09-10  
; PRIOR APPLICATION NUMBER: PCT/US98/19093  
; PRIOR FILING DATE: 1998-09-14  
; PRIOR APPLICATION NUMBER: PCT/US98/19330  
; PRIOR FILING DATE: 1998-09-16  
; PRIOR APPLICATION NUMBER: PCT/US98/19437  
; PRIOR FILING DATE: 1998-09-17  
; PRIOR APPLICATION NUMBER: PCT/US98/24855  
; PRIOR FILING DATE: 1998-11-20  
; PRIOR APPLICATION NUMBER: PCT/US98/25108  
; PRIOR FILING DATE: 1998-12-01  
; PRIOR APPLICATION NUMBER: PCT/US98/25190  
; PRIOR FILING DATE: 1998-11-25  
; PRIOR APPLICATION NUMBER: PCT/US99/05028  
; PRIOR FILING DATE: 1999-03-08  
; PRIOR APPLICATION NUMBER: PCT/US99/12252  
; PRIOR FILING DATE: 1999-06-02  
; PRIOR APPLICATION NUMBER: PCT/US99/20111  
; PRIOR FILING DATE: 1999-09-01  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/21547

Query Match 100.0%; Score 2137; DB 9; Length 2137;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 GCTCCAGCAAGAACCTCGGGGCGCTGCGGTGGGAGGAGTTCCTCCGAACCCGGC 60  
Qy 61 CGTTAAGCAGGGCTCTCTCTCCCGCAGATCCGAAGCCCTGGGCGGGGTACACCCCGGCT 120  
Db 61 CGTTAAGCAGGGCTCTCTCTCCCGCAGATCCGAAGCCCTGGGCGGGGTACACCCCGCT 120  
Qy 121 GGGACAAGACCGCCGCTCTGCTGCCCCGGGCGGGAGGGGCTGGGCTGGGGCCGG 180  
Db 121 GGGACAAGACCGCCGCTGCTGCTGCCCCGGGCGGGAGGGGCTGGGCTGGGGCCGG 180  
Qy 181 AGGGGGGTGAGTGGGTGTGCGGGGGGGGGAGGCTTGATGCAATCCCGATAGAAA 240  
Db 181 AGGGGGGTGAGTGGGTGTGCGGGGGGGGGAGGCTTGATGCAATCCCGATAGAAA 240  
Qy 241 TGTCTGGGGTGTCTTTGGGCACTACCCCTGGGGCCCGTAAGGCGCTACTATAGGCTGC 300  
Db 241 TGTCTGGGGTGTCTTTGGGCACTACCCCTGGGGCCCGTAAGGCGCTACTATAGGCTGC 300  
Qy 301 CGGCGCGAGCGCGCGCGCTCAGAGCAGGAGCGCTGCTCCAGGATCTAGGGCCACGA 360  
Db 301 CGGCGCGAGCGCGCGCGCTCAGAGCAGGAGCGCTGCTCCAGGATCTAGGGCCACGA 360  
Qy 361 CCAATCCCAACCCGCACTCAGCGCCGAGCGCATCCCGGTGCGCGCCGAGCTCCCGC 420  
Db 361 CCAATCCCAACCCGCACTCAGCGCCGAGCGCATCCCGGTGCGCGCCGAGCTCCCGC 420  
Qy 421 ACCCCATCCCGGAGTGGCGCCGACAGCGCCAGGAGGTGCCATGCGGAGCGGGTGTGT 480  
Db 421 ACCCCATCCCGGAGTGGCGCCGAGAGCCCCAGGAGGTGCCATGCGGAGCGGGTGTGT 480  
Qy 481 GGTGGTCCAGTATGATGCTGCGCGGCTCTGCGTGGCGGTGCGCGGGCGCCCTCGC 540  
Db 481 GGTGGTCCAGTATGATGCTGCGCGGCTCTGCGTGGCGGTGCGCGGGCGCCCTCGC 540  
Qy 541 CTCTCGAGCGGGGCGCCAGCTGACGTGCGGTGGGGGAGCCCATCCGCTGCGGCA 600  
Db 541 CTCTCGAGCGGGGCGCCAGCTGACGTGCGGTGGGGGAGCCCATCCGCTGCGGCA 600  
Qy 601 CCTGTACACCTCGCGGCGCCAGCGGTCTCCAGTGTCTGCGCATCCGTGCCGACGG 660  
Db 601 CCTGTACACCTCGCGGCGCCAGCGGTCTCCAGTGTCTGCGCATCCGTGCCGACGG 660  
Qy 661 CGTGTGGACTGCGCGGGGCGCAGAGCGCACAGTTTCTGCGAGATCAAGGCACTGCG 720  
Db 661 CGTGTGGACTGCGCGGGGCGCAGAGCGCACAGTTTCTGCGAGATCAAGGCACTGCG 720  
Qy 721 TCTGCGACCGTGGCCATCAAGGCGGTGACAGCGTCCGCTGCGGCGGGCGCCCTCGC 780  
Db 721 TCTGCGACCGTGGCCATCAAGGCGGTGACAGCGTCCGCTGCGGCGGGCGCCGA 780  
Qy 781 CGCAAGATCAGGGGTGCTTCAGTACTCGGAGGAGCTGTCTTCGAGGAGGAGAT 840  
Db 781 CGCAAGATCAGGGGTGCTTCAGTACTCGGAGGAGCTGTCTTCGAGGAGGAGAT 840  
Qy 841 CGGCGCAGATGGCTACAAATGTACCGATCCGAGAGCAGCGCTCCCGGTCTCCCTGAG 900  
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Qy 961 GCCCATGCTGCCCTCGAGAGGAGCTGAGGAGCTCAGGGGCGACCTTGGAACTGTA 1020  
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Qy 1021 CATGTTCTCTCGCCCTGGAGACCCAGACCATGGACCCATTTGGGCTTGTACCGGACT 1080  
Db 1021 CATGTTCTCTCGCCCTGGAGACCCAGACCATGGACCCATTTGGGCTTGTACCGGACT 1080  
Qy 1081 GGAGGCGGTGAGGATGCCAGCTTGAGAAAGTAACGTAGACCATGCGCGGCGCTCTTCAC 1140  
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Db 1081 GGAGGCGGTGAGGATGCCAGCTTTGAGAAGTAACGTAGACCATGCGCGGCGCTCTTCAC 1140  
Qy 1141 TGTGTCAGGGGTGTGGTACCTGCAGCGTGGGGAGCTGCTTCTTACAAGAACAGTCTCTG 1200  
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Qy 1261 TCCATTGGCAGTCCAGTTTCTAGCCCAATAGACTTGTCTGATCAATCAATTTGAGGCTG 1320  
Db 1261 TCCATTGGCAGTCCAGTTTCTAGCCCAATAGACTTGTCTGATCAATCAATTTGAGGCTG 1320  
Qy 1321 TAGCTTTGCCAGCTGCTGCTGGGCGCCCAATCTGCTCCCTCGAGGTTGCTGGACAAGCT 1380  
Db 1321 TAGCTTTGCCAGCTGCTGCTGGGCGCCCAATCTGCTCCCTCGAGGTTGCTGGACAAGCT 1380  
Qy 1381 GCTGCACTGTCTCAGTTCTGCTTGAATACCTCCATCGATGGGAACCTCACTTCTCTTGGGA 1440  
Db 1381 GCTGCACTGTCTCAGTTCTGCTTGAATACCTCCATCGATGGGAACCTCACTTCTCTTGGGA 1440  
Qy 1441 AAAATTCTTATGTCAAGCTGAAATTTCTAAATTTTCTCATCACTTCCCAGGAGCAGC 1500  
Db 1441 AAAATTCTTATGTCAAGCTGAAATTTCTAAATTTTCTCATCACTTCCCAGGAGCAGC 1500  
Qy 1501 CAGAAGACAGGCACTAGTTTAAATTTTTCAGGAACAGGTGATCCACTCTGTAAAAACAGCAGG 1560  
Db 1501 CAGAAGACAGGCACTAGTTTAAATTTTTCAGGAACAGGTGATCCACTCTGTAAAAACAGCAGG 1560  
Qy 1561 TAAATTTCACTCAACCCCATGTGGGAATTGATCTATATCTCTACTTCCAGGGACCATTTG 1620  
Db 1561 TAAATTTCACTCAACCCCATGTGGGAATTGATCTATATCTCTACTTCCAGGGACCATTTG 1620  
Qy 1621 CCTTCCCAATCCCTCAGGCGCAGAACTGACTGGAGCAGCATGGCCACAGGCTTCA 1680  
Db 1621 CCTTCCCAATCCCTCAGGCGCAGAACTGACTGGAGCAGCATGGCCACAGGCTTCA 1680  
Qy 1681 GGAGTGGGAAGCCTGGAGCGCCACTCCAGCCCTGGGACAACCTTGAGAATTTCCCCCTGA 1740  
Db 1681 GGAGTGGGAAGCCTGGAGCGCCACTCCAGCCCTGGGACAACCTTGAGAATTTCCCCCTGA 1740  
Qy 1741 GGCCAGTTCTGTATGATGCTGCTGTGAGATAAATTTGCTGTCGCCGGTGTCACTGCTT 1800  
Db 1741 GGCCAGTTCTGTATGATGCTGCTGTGAGATAAATTTGCTGTCGCCGGTGTCACTGCTT 1800  
Qy 1801 CCATCTCCAGCGCCAGCGCCCTGCGCCACTCAATGCTCCCAATGCAATTTGGGCGCT 1860  
Db 1801 CCATCTCCAGCGCCAGCGCCCTGCGCCACTCAATGCTCCCAATGCAATTTGGGCGCT 1860  
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Db 1861 CCCAGGCGCCCGCCACTTATGTCAACCTGCACTTCTTGTTCAAAAATCAGGAAAGAAAG 1920  
Qy 1921 ATTTGAAGACCCCAAGTCTGTCAATAAATTTGCTGTGGAAGCAGCGGGGAGACCTA 1980  
Db 1921 ATTTGAAGACCCCAAGTCTGTCAATAAATTTGCTGTGGAAGCAGCGGGGAGACCTA 1980  
Qy 1981 GAACCCCTTCCCGCAGCACTTGGTTTCCAAACATCATATTTATGAGTAATTTATTTTGATA 2040  
Db 1981 GAACCCCTTCCCGCAGCACTTGGTTTCCAAACATCATATTTATGAGTAATTTATTTGATA 2040  
Qy 2041 TGTACATCTCTTATTTTCTTACATATTTATGCCCGCAAAATATATTTATCTATGTAAGT 2100  
Db 2041 TGTACATCTCTTATTTTCTTACATATTTATGCCCGCAAAATATATTTATCTATGTAAGT 2100  
Qy 2101 GAGGTTGTTTCTATATTAATAATGGAGTTGTTGT 2137  
Db 2101 GAGGTTGTTTCTATATTAATAATGGAGTTGTTGT 2137

Sequence 58, Application US/09902853  
Publication No. US20020192659A1  
GENERAL INFORMATION:  
APPLICANT: Genentech, Inc.  
APPLICANT: Ashkenazi, Avi  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Fong, Sherman  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, A.  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, Christopher J.  
APPLICANT: Gurney, Austin L.  
APPLICANT: Hillan, Kenneth, J.  
APPLICANT: Kijavir, Ivar J.  
APPLICANT: Mather, Jennie P.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William, I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: 10466-14  
CURRENT APPLICATION NUMBER: US/09/902,853  
CURRENT FILING DATE: 2001-07-10  
PRIOR APPLICATION NUMBER: US/09/665,350  
PRIOR FILING DATE: 2000-09-18  
PRIOR APPLICATION NUMBER: US 60/143,048  
PRIOR FILING DATE: 1999-07-07  
PRIOR APPLICATION NUMBER: US 60/145,698  
PRIOR FILING DATE: 1999-07-26  
PRIOR APPLICATION NUMBER: US 60/146,222  
PRIOR FILING DATE: 1999-07-28  
PRIOR APPLICATION NUMBER: PCT/US99/20594  
PRIOR FILING DATE: 1999-09-08  
PRIOR APPLICATION NUMBER: PCT/US99/20944  
PRIOR FILING DATE: 1999-09-13  
PRIOR APPLICATION NUMBER: PCT/US99/21090  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/21547  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/23089  
PRIOR FILING DATE: 1999-10-05  
PRIOR APPLICATION NUMBER: PCT/US99/28214  
PRIOR FILING DATE: 1999-11-29  
PRIOR APPLICATION NUMBER: PCT/US99/28313  
PRIOR FILING DATE: 1999-11-30  
PRIOR APPLICATION NUMBER: PCT/US99/28564  
PRIOR FILING DATE: 1999-12-02  
PRIOR APPLICATION NUMBER: PCT/US99/28565  
PRIOR FILING DATE: 1999-12-02  
PRIOR APPLICATION NUMBER: PCT/US99/30095  
PRIOR FILING DATE: 1999-12-16  
PRIOR APPLICATION NUMBER: PCT/US99/30911  
PRIOR FILING DATE: 1999-12-20  
PRIOR APPLICATION NUMBER: PCT/US99/30999  
PRIOR FILING DATE: 1999-12-20  
PRIOR APPLICATION NUMBER: PCT/US00/00219  
PRIOR FILING DATE: 2000-01-05  
NUMBER OF SEQ ID NOS: 423  
SEQ ID NO 58  
LENGTH: 2137  
TYPE: DNA  
ORGANISM: Homo Sapien  
US-09-902-853-58

		Query Match	100.0%	Score 2137	DB 9	Length 2137
		Best Local Similarity	100.0%	Pred. No. 0		
		Mismatches 2137	Conservative 0	Mismatches 0	Indels 0	Gaps 0
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DB	1	GCTCCAGCAAGAACCTCGGGCCCGCTGGCGGTGGGAGGAGTTC	CGCAAAACCGGC	60		
QY	61	CGCTAAGCGAGGCTCTCTCTCCCGCAGATCCGAACGGCTGGCGGGGTCA	CGCGCT	120		
DB	61	CGCTAAGCGAGGCTCTCTCTCCCGCAGATCCGAACGGCTGGCGGGGTCA	CGCGCT	120		
QY	121	GGCACAAAGACCGCCCGCTTGGCCCGGGCCGGGAGGGGCTGGGGCTGG	GGCGG	180		
DB	121	GGCACAAAGACCGCCCGCTTGGCCCGGGCCGGGAGGGGCTGGGGCTGG	GGCGG	180		
QY	181	AGCGGGGTGTGAGTGGGTGTGTGCGGGGGGGGAGAGCTTGATGCAATCC	GAAGAAA	240		
DB	181	AGCGGGGTGTGAGTGGGTGTGTGCGGGGGGGGAGAGCTTGATGCAATCC	GAAGAAA	240		
QY	241	TGCTCGGTGTCTTGGGCACCTACCGTGGGGCCCGTAAGCGCTACTATATA	AGAGCTGC	300		
DB	241	TGCTCGGTGTCTTGGGCACCTACCGTGGGGCCCGTAAGCGCTACTATATA	AGAGCTGC	300		
QY	301	CGGCCCGAGCGCCCGCGCTCAGAGCAGAGCGCTTGGCTCCAGGATCTAG	AGGCCACGA	360		
DB	301	CGGCCCGAGCGCCCGCGCTCAGAGCAGAGCGCTTGGCTCCAGGATCTAG	AGGCCACGA	360		
QY	361	CATCCCAACCGGGCACTACAGCCCGCAGCGCATCCCGTGGCCCGCAJCT	TCGCCGC	420		
DB	361	CATCCCAACCGGGCACTACAGCCCGCAGCGCATCCCGTGGCCCGCAJCT	TCGCCGC	420		
QY	421	ACCCCATCGCGAGCTGCGCGCAGAGCCCGCAGGAGTGCATCGCGAGGG	GGTGTGT	480		
DB	421	ACCCCATCGCGAGCTGCGCGCAGAGCCCGCAGGAGTGCATCGCGAGGG	GGTGTGT	480		
QY	481	GGTGTCCAGTATGGATCCCTGGCCGGGCTCTGGCTGGCGTGGCGGGG	CGCCCTCGC	540		
DB	481	GGTGTCCAGTATGGATCCCTGGCCGGGCTCTGGCTGGCGTGGCGGGG	CGCCCTCGC	540		
QY	541	CTTCTCGGAGCGGGGGCCCGCTGACCTAGCGCTGGGGGACCCCGCAT	CTGCGCA	600		
DB	541	CTTCTCGGAGCGGGGGCCCGCTGACCTAGCGCTGGGGGACCCCGCAT	CTGCGCA	600		
QY	601	CTGTACACCTCGCGCCCGCCACCGGCTCTCCAGCTGCTTCTGCGCAT	CGCGAGG	660		
DB	601	CTGTACACCTCGCGCCCGCCACCGGCTCTCCAGCTGCTTCTGCGCAT	CGCGAGG	660		
QY	661	CGTGTGGACTGCGCGCGGGCCAGAGCGCGCACAGTTTCTGGAGATCA	AGAGTGC	720		
DB	661	CGTGTGGACTGCGCGCGGGCCAGAGCGCGCACAGTTTCTGGAGATCA	AGAGTGC	720		
QY	721	TCGCGGACCGTGGCCATCAAGGGGTGACAGCGTGGGTGCTGCTGCA	TGCGCGCA	780		
DB	721	TCGCGGACCGTGGCCATCAAGGGGTGACAGCGTGGGTGCTGCTGCA	TGCGCGCA	780		
QY	781	CGCAAGATGACGGGCTGCTTCACTACGAGGAAGACTGTGCTTTTCCA	AGAGAGAT	840		
DB	781	CGCAAGATGACGGGCTGCTTCACTACGAGGAAGACTGTGCTTTTCCA	AGAGAGAT	840		
QY	841	CGCCCGCAGATGCTACAATGTGTACCGATCCGAGAGCAGCGCTCCG	GGTCTTCCCT	900		
DB	841	CGCCCGCAGATGCTACAATGTGTACCGATCCGAGAGCAGCGCTCCG	GGTCTTCCCT	900		
QY	901	CAGTGCACACAGCGGCTGTACAGAACACAGAGCTTCTTCCACTCT	CTCTCTCT	960		
DB	901	CAGTGCACACAGCGGCTGTACAGAACACAGAGCTTCTTCCACTCT	CTCTCTCT	960		
QY	961	GCCTATGCTGCCCATGTCGCCAGAGGAGCTGAGGACCTCAGGGGCA	CTTGAATCTGA	1020		
DB	961	GCCTATGCTGCCCATGTCGCCAGAGGAGCTGAGGACCTCAGGGGCA	CTTGAATCTGA	1020		

QY 1021 CATGTTCTCTTGGCCCTGGAGACCGAGCAGCATGGACCCATTGGGCTTGTCCACGGACT 1080  
Db 1021 CATGTTCTCTTGGCCCTGGAGACCGAGCAGCATGGACCCATTGGGCTTGTCCACGGACT 1080  
QY 1081 GGAGGCCGTGAGGAGTCCACGCTTTGAGAAGTAAGTGAAGACCATGGCCGGCCCTCTTCAC 1140  
Db 1081 GGAGGCCGTGAGGAGTCCACGCTTTGAGAAGTAAGTGAAGACCATGGCCGGCCCTCTTCAC 1140  
QY 1141 TGCTGCCAGGGGCTGTGGTACCTGCAGCGTGGGGAGCGTGTCTTACAAGAACACAGTCTGT 1200  
Db 1141 TGCTGCCAGGGGCTGTGGTACCTGCAGCGTGGGGAGCGTGTCTTACAAGAACACAGTCTGT 1200  
QY 1201 AGTCCACGTTCTGTTAGCTTTAGAGAGAACATCTAGAAGTTGTACATATTCAGAGTTT 1260  
Db 1201 AGTCCACGTTCTGTTAGCTTTAGAGAGAACATCTAGAAGTTGTACATATTCAGAGTTT 1260  
QY 1261 TCCATTGGCAGTGCAGTTCTAGCCAAATAGACTTGTCTGATCAATAACATGTAAGCCTG 1320  
Db 1261 TCCATTGGCAGTGCAGTTCTAGCCAAATAGACTTGTCTGATCAATAACATGTAAGCCTG 1320  
QY 1321 TAGCTTGCCAGCTGCTGCCCTGGGCCCCCAATCTGCTCCCTCGAGGTTGCTGGACAAGCT 1380  
Db 1321 TAGCTTGCCAGCTGCTGCCCTGGGCCCCCAATCTGCTCCCTCGAGGTTGCTGGACAAGCT 1380  
QY 1381 GCTGCAGTGTCTAGTCTGCTTGAATACCTCCATCGATGGGAACTCACTTCCTTTGGA 1440  
Db 1381 GCTGCAGTGTCTAGTCTGCTTGAATACCTCCATCGATGGGAACTCACTTCCTTTGGA 1440  
QY 1441 AAAATTTCTATGTCAAGCTGAAATTTCTAATTTTTTCTCATCACTTCCCCAGGAGCAGC 1500  
Db 1441 AAAATTTCTATGTCAAGCTGAAATTTCTAATTTTTTCTCATCACTTCCCCAGGAGCAGC 1500  
QY 1501 CAGAAGACAGCAGTAGTTTTTAATTTT CAGGAACAGGTCATCCACTCTGTATAAACAGCAGG 1560  
Db 1501 CAGAAGACAGCAGTAGTTTTTAATTTT CAGGAACAGGTCATCCACTCTGTATAAACAGCAGG 1560  
QY 1561 TAAATTTTCACTCAACCCCATGTGGAAATGTATCTATATCTACTTCCAGGGACCATTTG 1620  
Db 1561 TAAATTTTCACTCAACCCCATGTGGAAATGTATCTATATCTACTTCCAGGGACCATTTG 1620  
QY 1621 CCCTTCCCAATCCCTCCAGGCCAGAACTGACTGGAGCAGGATGGCCACAGGCTTCA 1680  
Db 1621 CCCTTCCCAATCCCTCCAGGCCAGAACTGACTGGAGCAGGATGGCCACAGGCTTCA 1680  
QY 1681 GGAGTAGGGAAGCCTTGAGCCGCCACCTCCAGCCCTGGGACAACTTGAGAATTTCCCCCTGA 1740  
Db 1681 GGAGTAGGGAAGCCTTGAGCCGCCACCTCCAGCCCTGGGACAACTTGAGAATTTCCCCCTGA 1740  
QY 1741 GGCCAGTTCTGTCATGATGCTGCTGAGAATAACTTGTCTCCCGGTGTCACTTGCCTT 1800  
Db 1741 GGCCAGTTCTGTCATGATGCTGCTGAGAATAACTTGTCTCCCGGTGTCACTTGCCTT 1800  
QY 1801 CCATCTCCAGCCACAGCCCTCTGCCACCTCACATGCTCCCATGGATGGGGCCCT 1860  
Db 1801 CCATCTCCAGCCACAGCCCTCTGCCACCTCACATGCTCCCATGGATGGGGCCCT 1860  
QY 1861 CCCAGGCCCCACCTTATGTCAACCTGCACTTCTTGTTCAAAATCAGGAAAGAAAAG 1920  
Db 1861 CCCAGGCCCCACCTTATGTCAACCTGCACTTCTTGTTCAAAATCAGGAAAGAAAAG 1920  
QY 1921 ATTTGAAGACCCCAAGTCTGTCAATAACTTGTCTGTCGAAGCAGCGGGGAGACCTA 1980  
Db 1921 ATTTGAAGACCCCAAGTCTGTCAATAACTTGTCTGTCGAAGCAGCGGGGAGACCTA 1980  
QY 1981 GAACCCCTTTCCCGAGCACTTGGTTTTTCCAAACATGATATTTATGAGTAATTTATTTTGATA 2040  
Db 1981 GAACCCCTTTCCCGAGCACTTGGTTTTTCCAAACATGATATTTATGAGTAATTTATTTTGATA 2040  
QY 2041 TGTACATCTCTATTTTCTTACATTAATTTATGCCCCCAAAATATATTTATGTATGTAAGT 2100  
Db 2041 TGTACATCTCTATTTTCTTACATTAATTTATGCCCCCAAAATATATTTATGTATGTAAGT 2100  
QY 2101 GAGGTTGTTTTGTATATTAATAAGGAGTTGTTGT 2137

Db 2101 GAGGTTGTTTTGTATATTAATAAGGAGTTGTTGT 2137

## RESULT 5

US-09-907-824-58

: Sequence 58, Application US/09907824

: Publication No. US20020197671A1

: GENERAL INFORMATION:

: APPLICANT: Genentech, Inc.

: APPLICANT: Ashkenazi, Avi

: APPLICANT: Botstein, David

: APPLICANT: Desnoyers, Luc

: APPLICANT: Eaton, Dan L.

: APPLICANT: Ferrara, Napoleone

: APPLICANT: Filvaroff, Ellen

: APPLICANT: Fong, Sherman

: APPLICANT: Gao, Wei-Qiang

: APPLICANT: Gerber, Hanspeter

: APPLICANT: Gerritsen, Mary E.

: APPLICANT: Goddard, A.

: APPLICANT: Godowski, Paul J.

: APPLICANT: Grimaldi, Christopher J.

: APPLICANT: Gurney, Austin L.

: APPLICANT: Hillan, Kenneth, J.

: APPLICANT: Kijavini, Ivar J.

: APPLICANT: Mather, Jennie P.

: APPLICANT: Pan, James

: APPLICANT: Paoni, Nicholas F.

: APPLICANT: Roy, Margaret Ann

: APPLICANT: Stewart, Timothy A.

: APPLICANT: Tumas, Daniel

: APPLICANT: Williams, P. Mickey

: APPLICANT: Wood, William, I.

: TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

: FILE REFERENCE: 10466-14

: CURRENT APPLICATION NUMBER: US/09/907,824

: PRIOR FILING DATE: 2001-07-17

: PRIOR APPLICATION NUMBER: 09/665,350

: PRIOR FILING DATE: 2000-09-18

: PRIOR APPLICATION NUMBER: PCT/US00/04414

: PRIOR FILING DATE: 2000-02-22

: PRIOR APPLICATION NUMBER: US 60/143,048

: PRIOR FILING DATE: 1999-07-07

: PRIOR APPLICATION NUMBER: US 60/145,698

: PRIOR FILING DATE: 1999-07-26

: PRIOR APPLICATION NUMBER: US 60/146,222

: PRIOR FILING DATE: 1999-07-28

: PRIOR APPLICATION NUMBER: PCT/US99/20594

: PRIOR FILING DATE: 1999-09-08

: PRIOR APPLICATION NUMBER: PCT/US99/20944

: PRIOR FILING DATE: 1999-09-13

: PRIOR APPLICATION NUMBER: PCT/US99/21090

: PRIOR FILING DATE: 1999-09-15

: PRIOR APPLICATION NUMBER: PCT/US99/21547

: PRIOR FILING DATE: 1999-09-15

: PRIOR APPLICATION NUMBER: PCT/US99/23089

: PRIOR FILING DATE: 1999-10-05

: PRIOR APPLICATION NUMBER: PCT/US99/28214

: PRIOR FILING DATE: 1999-11-29

: PRIOR APPLICATION NUMBER: PCT/US99/28313

: PRIOR FILING DATE: 1999-11-30

: PRIOR APPLICATION NUMBER: PCT/US99/28564

: PRIOR FILING DATE: 1999-12-02

: PRIOR APPLICATION NUMBER: PCT/US99/28565

: PRIOR FILING DATE: 1999-12-02

: PRIOR APPLICATION NUMBER: PCT/US99/30095

: PRIOR FILING DATE: 1999-12-16

: PRIOR APPLICATION NUMBER: PCT/US99/30911

: PRIOR FILING DATE: 1999-12-20

: PRIOR APPLICATION NUMBER: PCT/US99/30999

: PRIOR FILING DATE: 1999-12-20

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; PRIOR APPLICATION NUMBER: PCT/US00/002119
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 58
; LENGTH: 2137
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-907-824-58

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Query Match	100.0%;	Score 2137;	DB 9;	Length 2137;
Best local Similarity	100.0%;	Pred. No. 0;		
Matches 2137;	Conservative	0;	Mismatches	0; Indels
QY	1	GCTCCAGCAAGAACTCTGGGCGCCTGCGCGTGGGAGGAGTTCCCGGAAACCCGCG	60	
DB	1	GCTCCAGCAAGAACTCTGGGCGCCTGCGCGTGGGAGGAGTTCCCGGAAACCCGCG	60	
QY	61	CGCTAAGCAGGCTCTCTCTCCCGCAGATCCGAACGGCTGGGCGGGTACACCCCGCT	120	
DB	61	CGCTAAGCAGGCTCTCTCTCCCGCAGATCCGAACGGCTGGGCGGGTACACCCCGCT	120	
QY	121	GGGACAGAAGCCCGCCCTGCTGCCGGGCCGGGAGGGCTGGGGCTGGGGCCGG	180	
DB	121	GGGACAGAAGCCCGCCCTGCTGCCGGGCCGGGAGGGCTGGGGCTGGGGCCGG	180	
QY	181	AGGCGGGTGTGAGTGGGTGTGTCGGGGGCGAGGCTTGATGCAATCCCATAGAAA	240	
DB	181	AGGCGGGTGTGAGTGGGTGTGTCGGGGGCGAGGCTTGATGCAATCCCATAGAAA	240	
QY	241	TGCTCGGGTGTCTTGCGCACTACCCGTGGGGCCGTAAAGGCGCTACTATAGAAGCTGC	300	
DB	241	TGCTCGGGTGTCTTGCGCACTACCCGTGGGGCCGTAAAGGCGCTACTATAGAAGCTGC	300	
QY	301	CGGCCGAGCCCGCGCGTCAGAGCAGGAGCGCTGGCTCCAGATCTAGGCCACGA	360	
DB	301	CGGCCGAGCCCGCGCGTCAGAGCAGGAGCGCTGGCTCCAGATCTAGGCCACGA	360	
QY	361	CCATCCCAACCCGGCACTACAGCCCGCAGCGCATCCCGCTCGCCGCCCACTCTCCCGC	420	
DB	361	CCATCCCAACCCGGCACTACAGCCCGCAGCGCATCCCGCTCGCCGCCCACTCTCCCGC	420	
QY	421	ACCCCATCGCCGAGGTGGCGCGAGAGCCCAAGGAGTGGCATCGGAGTGGGTGTCT	480	
DB	421	ACCCCATCGCCGAGGTGGCGCGCAGAGCCCAAGGAGTGGCATCGGAGTGGGTGTCT	480	
QY	481	GGTGTCCACGTATGGATCTTGCGCGCCCTCTGGCTGGCCGTGGCGGTGCTCCCGC	540	
DB	481	GGTGTCCACGTATGGATCTTGCGCGCCCTCTGGCTGGCCGTGGCGGTGCTCCCGC	540	
QY	541	CTTCTCGAGCCGGGCCCCACGTGACCTACGGCTGGGCGACCCCATCGCTCGCGCA	600	
DB	541	CTTCTCGAGCCGGGCCCCACGTGACCTAGCGCTGGGCGACCCCATCGCTCGCGCA	600	
QY	601	CCTGTACACTCGGGCCCCACGGGCTCTCCAGCTCTTCTTCCGATCCGTGCCGACGG	660	
DB	601	CCTGTACACTCGGGCCCCACGGGCTCTCCAGCTCTTCTTCCGATCCGTGCCGACGG	660	
QY	661	CGTCTGGACTGCGCGGGGGCCAGAGCGGCACACTTTTCTTGGAGATCAAGGTCAGTCCG	720	
DB	661	CGTCTGGACTGCGCGGGGGCCAGAGCGGCACACTTTTCTTGGAGATCAAGGTCAGTCCG	720	
QY	721	TCTCGGACCGTGGCCATCAAGGGCTGCACAGCGTGGGTACCTCTGCATGGGCGCGA	780	
DB	721	TCTCGGACCGTGGCCATCAAGGGCTGCACAGCGTGGGTACCTCTGCATGGGCGCGCGA	780	
QY	781	CGCAAGATGCAAGGGCTGCTTCAGTACTCGGAGGAAGACTGTGCTTTTCGAGGAGAGAT	840	
DB	781	CGCAAGATGCAAGGGCTGCTTCAGTACTCGGAGGAAGACTGTGCTTTTCGAGGAGAGAT	840	
QY	841	CCGCCAGATGGCTACAATGTGTACCGATCCGAGAAGCACCGGCTCCCGTCTCCCTGAG	900	
DB	841	CCGCCAGATGGCTACAATGTGTACCGATCCGAGAAGCACCGGCTCCCGTCTCCCTGAG	900	

Db 1981 GAACCCCTTCCCGAGCACTTGGTTTCCCAACATGATATTTAAGASTAATTTATTTTGATA 2040  
Qy 2041 TGTACATCTCTATTTTCTACATTATTTATGCCCCCAATTTATATTTATGTTATGTAAGT 2100  
Db 2041 TGTACATCTCTATTTTCTACATTATTTAAGCCCCCAATTTATTTATGTTATGTAAGT 2100  
Qy 2101 GAGTTTGTGTTTGTATATAAATGAGTTTGT 2137  
Db 2101 GAGTTTGTGTTTGTATATAAATGAGTTTGT 2137

RESULT 6

US-09-907-841-58  
: Sequence 58, Application US/09907841  
: Publication No. US20020198366A1  
: GENERAL INFORMATION:  
: APPLICANT: Genentech, Inc.  
: APPLICANT: Ashkenazi, Avi  
: APPLICANT: Botstein, David  
: APPLICANT: Desnoyers, Luc  
: APPLICANT: Eaton, Dan L.  
: APPLICANT: Ferrara, Napoleone  
: APPLICANT: Filvaroff, Ellen  
: APPLICANT: Fong, Sherman  
: APPLICANT: Gao, Wei-Qiang  
: APPLICANT: Gerber, Hanspeter  
: APPLICANT: Gerritsen, Mary E.  
: APPLICANT: Goddard, A.  
: APPLICANT: Godowski, Paul J.  
: APPLICANT: Grimaldi, Christopher J.  
: APPLICANT: Gurney, Austin L.  
: APPLICANT: Hillan, Kenneth, J.  
: APPLICANT: Kljavin, Ivar J.  
: APPLICANT: Mather, Jennie P.  
: APPLICANT: Pan, James  
: APPLICANT: Paoni, Nicholas F.  
: APPLICANT: Roy, Margaret Ann  
: APPLICANT: Stewart, Timothy A.  
: APPLICANT: Tumas, Daniel  
: APPLICANT: Williams, P. Mickey  
: APPLICANT: Wood, William, I.  
: TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
: FILE OF INVENTION: Acids Encoding the Same  
: FILE REFERENCE: 10466-14  
: CURRENT APPLICATION NUMBER: US/09/907,841  
: CURRENT FILING DATE: 2001-11-20  
: PRIOR APPLICATION NUMBER: PCT/US00/04414  
: PRIOR FILING DATE: 2000-02-22  
: PRIOR APPLICATION NUMBER: US 60/143,048  
: PRIOR FILING DATE: 1999-07-07  
: PRIOR APPLICATION NUMBER: US 60/145,698  
: PRIOR FILING DATE: 1999-07-26  
: PRIOR APPLICATION NUMBER: US 60/146,222  
: PRIOR FILING DATE: 1999-07-28  
: PRIOR APPLICATION NUMBER: PCT/US99/20594  
: PRIOR FILING DATE: 1999-09-08  
: PRIOR APPLICATION NUMBER: PCT/US99/20944  
: PRIOR FILING DATE: 1999-09-13  
: PRIOR APPLICATION NUMBER: PCT/US99/21090  
: PRIOR FILING DATE: 1999-09-15  
: PRIOR APPLICATION NUMBER: PCT/US99/21547  
: PRIOR FILING DATE: 1999-09-15  
: PRIOR APPLICATION NUMBER: PCT/US99/23089  
: PRIOR FILING DATE: 1999-10-05  
: PRIOR APPLICATION NUMBER: PCT/US99/28214  
: PRIOR FILING DATE: 1999-11-29  
: Remaining Prior Application data removed - See File Wrapper or PALM.  
: NUMBER OF SEQ ID NOS: 423  
: SEQ ID NO 58  
: LENGTH: 2137  
: TYPE: DNA  
: ORGANISM: Homo sapiens

US-09-907-841-58

Query Match 100.0%; Score 2137; DB 9; Length 2137;  
Best Local Similarity 100.0%; Pred No. 0;  
Matches 2137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 GCTCCCAAGCAAGAACCTCGGGCGCTGCGCGTGGGAGGAGTTCCCGGAAACCCGCG 60  
Db 1 GCTCCCAAGCAAGAACCTCGGGCGCTGCGCGTGGGAGGAGTTCCCGGAAACCCGCG 60  
Qy 61 CGCTAAGCGAGGCTCTCTCTCCCGCAGATCCGACAGCCCTGGCGGGGTCAACCCGCT 120  
Db 61 CGCTAAGCGAGGCTCTCTCTCCCGCAGATCCGACAGCCCTGGCGGGGTCAACCCGCT 120  
Qy 121 GGGACAAAGAGCCGCGCTGCTGCCCGCGCGGAGGGGCTGGGCTGGGCGCG 180  
Db 121 GGGACAAAGAGCCGCGCTGCTGCCCGCGCGGAGGGGCTGGGCTGGGCGCG 180  
Qy 181 AGCGGGGTGTGAGTGGGTGTGTGCCGGGGGCGAGGCTTGTGCAATCCGATAAGAAA 240  
Db 181 AGCGGGGTGTGAGTGGGTGTGTGCCGGGGGCGAGGCTTGTGCAATCCGATAAGAAA 240  
Qy 241 TGCTCGGGTGTCTTGGCACCTACCCGTGGGCGCCCTAAGCGCTACTATATAGGCTGC 300  
Db 241 TGCTCGGGTGTCTTGGCACCTACCCGTGGGCGCCCTAAGCGCTACTATATAGGCTGC 300  
Qy 301 CGGCGCGAGCGCGCGCGCTCAGAGCAGGAGCGCTGCCGTCCAGGATCTAGGGCCACGA 360  
Db 301 CGGCGCGAGCGCGCGCGCTCAGAGCAGGAGCGCTGCCGTCCAGGATCTAGGGCCACGA 360  
Qy 361 CCATCCCAACCCGGCACTACAGCCCGCAGCGCATCCCGGTGCGCGCCAGCTCCCGC 420  
Db 361 CCATCCCAACCCGGCACTACAGCCCGCAGCGCATCCCGGTGCGCGCCAGCTCCCGC 420  
Qy 421 ACCCCATCCCGAGCTGCGCGCAGAGCCCGAGGAGTGCCATCGGAGCGGCTGT 480  
Db 421 ACCCCATCCCGAGCTGCGCGCAGAGCCCGAGGAGTGCCATCGGAGCGGCTGT 480  
Qy 481 GGTGTCACAGTATGATCTTGGCGCGCTCTGCTGCGCGCTGCGCGCGCGCGCTCGC 540  
Db 481 GGTGTCACAGTATGATCTTGGCGCGCTCTGCTGCGCGCTGCGCGCGCGCGCTCGC 540  
Qy 541 CTCTCGGAGCGGGGCGCGCGCTGCGCTACAGGCTGGGGGAGCCCATCTCGCTCGGCG 600  
Db 541 CTCTCGGAGCGGGGCGCGCGCTGCGCTACAGGCTGGGGGAGCCCATCTCGCTCGGCG 600  
Qy 601 CCTGTACACCTCGGCGCGCGCGCTCTCCAGCTGCTTCTGCGCATCTCGTCCGACGG 660  
Db 601 CCTGTACACCTCGGCGCGCGCGCTCTCCAGCTGCTTCTGCGCATCTCGTCCGACGG 660  
Qy 661 CGTCGTGGACTGCGCGCGCGCGCAGAGCGCGCAGTTTGTGAGATCAAGGAGTCAAGG 720  
Db 661 CGTCGTGGACTGCGCGCGCGCGCAGAGCGCGCAGTTTGTGAGATCAAGGAGTCAAGG 720  
Qy 721 TCTGCGGACCGTGGCCATCAAGGCGGTGACAGCGCTCGGTACTCTGCAATGGCGCG 780  
Db 721 TCTGCGGACCGTGGCCATCAAGGCGGTGACAGCGCTCGGTACTCTGCAATGGCGCG 780  
Qy 781 CGGCAAGATGACGGGCTGCTTCTGAGTCTCGGAGGAGAGTGTCTTCCGAGGAGAGAT 840  
Db 781 CGGCAAGATGACGGGCTGCTTCTGAGTCTCGGAGGAGAGTGTCTTCCGAGGAGAGAT 840  
Qy 841 CCGCCAGATGGGTACAAATGTGTACCGATCCGAGAACACCGGCTCCGGTCTCCCTGAG 900  
Db 841 CCGCCAGATGGGTACAAATGTGTACCGATCCGAGAACACCGGCTCCGGTCTCCCTGAG 900  
Qy 901 CAGTGGCAACAGCGGCGAGTGTACAGAGACAGAGGCTTTTCTCCAGTCTCTCATTTCT 960  
Db 901 CAGTGGCAACAGCGGCGAGTGTACAGAGACAGAGGCTTTTCTCCAGTCTCTCATTTCT 960  
Qy 961 GCCCATGCTGCCCATGGTCCAGAGGAGCGCTGAGGAGCTCAGGGGCGACCTTGGAAATCGA 1020  
Db 961 GCCCATGCTGCCCATGGTCCAGAGGAGCGCTGAGGAGCTCAGGGGCGACCTTGGAAATCGA 1020

QY 1021 CATGTTCTCTTCGCCCTCGAGACCCAGCATGACCCATTGGGCTTGTACCGGACT 1080  
Db 1021 CATGTTCTCTTCGCCCTCGAGACCCAGCATGACCCATTGGGCTTGTACCGGACT 1080  
QY 1081 GGAGGCGGTGAGGAGTCCAGCTTTGAGAAGTAAGTGAAGACCATGCCGGGCTCTTCAC 1140  
Db 1081 GGAGGCGGTGAGGAGTCCAGCTTTGAGAAGTAAGTGAAGACCATGCCGGGCTCTTCAC 1140  
QY 1141 TGCTGCCAGGGGCTGTGTACCTGCAGCTGGGGGACGTGCTTCTACAAGAACACGTCCGTG 1200  
Db 1141 TGCTGCCAGGGGCTGTGTACCTGCAGCTGGGGGACGTGCTTCTACAAGAACACGTCCGTG 1200  
QY 1201 AGTCACAGTCTCTGTTAGCTTTTAGAAGAAACATCTAGAAGTGTACATATTCAGAGTTT 1260  
Db 1201 AGTCACAGTCTCTGTTAGCTTTTAGAAGAAACATCTAGAAGTGTACATATTCAGAGTTT 1260  
QY 1261 TCCATTGGCAGTGCAGTTTCTAGCCAATAGACCTTGTCTGATCATTAACATTTGTAAGCCCTG 1320  
Db 1261 TCCATTGGCAGTGCAGTTTCTAGCCAATAGACCTTGTCTGATCATTAACATTTGTAAGCCCTG 1320  
QY 1321 TAGCTTTGCCAGCTGCTGCCTGGGCCCCATTTCTGCTCCCTCGAGGTTGCTGGACAAGCT 1380  
Db 1321 TAGCTTTGCCAGCTGCTGCCTGGGCCCCATTTCTGCTCCCTCGAGGTTGCTGGACAAGCT 1380  
QY 1381 GCTGCACTGCTCAAGTCTTGAATACCTCCATCGATGGGGAACCTCACCTTCCCTTTGGA 1440  
Db 1381 GCTGCACTGCTCAAGTCTTGAATACCTCCATCGATGGGGAACCTCACCTTCCCTTTGGA 1440  
QY 1441 AAAATCTTATGTCAGGCTGAAATTTCTTAATTTTTCATCACTTCCAGGACCATTTG 1500  
Db 1441 AAAATCTTATGTCAGGCTGAAATTTCTTAATTTTTCATCACTTCCAGGACCATTTG 1500  
QY 1501 CAGAAGACAGCAGTAGTAAATTTTAAATTCAGGAACAGTGTACACTCTGTAAACACGAGG 1560  
Db 1501 CAGAAGACAGCAGTAGTAAATTTTAAATTTTAAATTCAGGAACAGTGTACACTCTGTAAACACGAGG 1560  
QY 1561 TAAATTTCACTCAACCCCATGTGGGAATTTGATCTATCTCTTACTTCCAGGACCATTTG 1620  
Db 1561 TAAATTTCACTCAACCCCATGTGGGAATTTGATCTATCTCTTACTTCCAGGACCATTTG 1620  
QY 1621 CCCTTCCCAATTCCTCCAGCCAGACTGACTGAGCAGGATGGCCACACAGGCTTCA 1680  
Db 1621 CCCTTCCCAATTCCTCCAGCCAGACTGACTGAGCAGGATGGCCACACAGGCTTCA 1680  
QY 1681 GGAGTAGGGGAAGCCTGGAGCCCACTCCAGCCCTGGGACACTTGAAGATTCGCCCTGA 1740  
Db 1681 GGAGTAGGGGAAGCCTGGAGCCCACTCCAGCCCTGGGACACTTGAAGATTCGCCCTGA 1740  
QY 1741 GGCCAGTTCTGTGATGATGCTGCTGAGATAACTTTGCTGTCCCGGTGTCACTGGCTT 1800  
Db 1741 GGCCAGTTCTGTGATGATGCTGCTGAGATAACTTTGCTGTCCCGGTGTCACTGGCTT 1800  
QY 1801 CCATCTCCAGCCACAGCCCTCTGCCCACTCACATGCTCCCACTGGATTTGGGGCT 1860  
Db 1801 CCATCTCCAGCCACAGCCCTCTGCCCACTCACATGCTCCCACTGGATTTGGGGCT 1860  
QY 1861 CCCAGGCCCCCACCCTTATGTCAAGCTGCACCTTCTTTGTTCAAAATCAGGAAAGAAAG 1920  
Db 1861 CCCAGGCCCCCACCCTTATGTCAAGCTGCACCTTCTTTGTTCAAAATCAGGAAAGAAAG 1920  
QY 1921 ATTTGAAGACCCCAAGCTTGTCAATAACTTGTCTGTGGAAGCAGCGGGGGAAGACCTA 1980  
Db 1921 ATTTGAAGACCCCAAGCTTGTCAATAACTTGTCTGTGGAAGCAGCGGGGGAAGACCTA 1980  
QY 1981 GAACCTTTCCCGACACTTGGTTTTTCAACATGATATTTATGAGTAATTTATTTGATA 2040  
Db 1981 GAACCTTTCCCGACACTTGGTTTTTCAACATGATATTTATGAGTAATTTATTTGATA 2040  
QY 2041 TGTACATCTTATTTTCTTACATTTATGCCCCCAAAATATATTTATGATGTAAGT 2100  
Db 2041 TGTACATCTTATTTTCTTACATTTATGCCCCCAAAATATATTTATGATGTAAGT 2100

QY 2101 GAGGTTGTTGTTATATTAATAATGAGTTTGTGTTGT 2137  
Db 2101 GAGGTTGTTGTTATATTAATAATGAGTTTGTGTTGT 2137  
RESULT 7  
US-09-904-011-58  
; Sequence 58, Application US/09904011  
; Publication No. US20030003530A1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/904,011  
; CURRENT FILING DATE: 2001-07-11  
; PRIOR APPLICATION NUMBER: 09/665,350  
; PRIOR FILING DATE: 2000-09-18  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08  
; PRIOR APPLICATION NUMBER: PCT/US99/20944  
; PRIOR FILING DATE: 1999-09-13  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/21547  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/23089  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: PCT/US99/28214  
; PRIOR FILING DATE: 1999-11-29  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: 1999-11-30  
; PRIOR APPLICATION NUMBER: PCT/US99/28564  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/28565  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: 1999-12-16  
; PRIOR APPLICATION NUMBER: PCT/US99/30911  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US99/30999

; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US00/00219  
; PRIOR FILING DATE: 2000-01-05  
; NUMBER OF SEQ ID NOS: 423  
; SEQ ID NO 58  
; LENGTH: 2137  
; TYPE: DNA  
; ORGANISM: Homo Sapien  
us-09-904-011-58

Query Match 100.0%; Score 2137; DB 9; Length 2137;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCTCCCAAGAACCTCGGGCGGCTGCGCGTGGGGAGGAGTTCCTCCCAAAACCCGGC 60  
Db 1 GCTCCCAAGAACCTCGGGCGGCTGCGCGTGGGGAGGAGTTCCTCCCAAAACCCGGC 60

Qy 61 CGCTAAGGAGGCGCTCTCTCCCGCAGATCCGAACGCGCTGGCGGGGTACCCCGGCT 120  
Db 61 CGCTAAGGAGGCGCTCTCTCCCGCAGATCCGAACGCGCTGGCGGGGTACCCCGGCT 120

Qy 121 GGGACAAGAACCGCGCTGCTGCGCGCGCGCGGGGAGGGGCTGGGGCTGGGGCGG 180  
Db 121 GGGACAAGAACCGCGCTGCTGCGCGCGCGCGGGGAGGGGCTGGGGCTGGGGCGG 180

Qy 181 AGCGGGGTGTAGTGGGTGTGTGGGGGGCGGAGGCTTGATCAATCCCGATAAGAAA 240  
Db 181 AGCGGGGTGTAGTGGGTGTGTGGGGGGCGGAGGCTTGATCAATCCCGATAAGAAA 240

Qy 241 TGCTGGGTGTCTTGGGACCTACCGTGGGGCCCGTAAGCGCTACTATATAAGGCTGC 300  
Db 241 TGCTGGGTGTCTTGGGACCTACCGTGGGGCCCGTAAGCGCTACTATATAAGGCTGC 300

Qy 301 CGGCGCGAGCGCGCGCTCAGAGCAGGAGCGCTGCTGCCAGGATCTAGGGCCACGA 360  
Db 301 CGGCGCGAGCGCGCGCTCAGAGCAGGAGCGCTGCTGCCAGGATCTAGGGCCACGA 360

Qy 361 CCATCCCAACCGGCACTACAGCCCGCGAGCGATCCCGTCCGCGCCACCGCTCCCGC 420  
Db 361 CCATCCCAACCGGCACTACAGCCCGCGAGCGATCCCGTCCGCGCCACCGCTCCCGC 420

Qy 421 ACCCCATCGCGAGCTGCCCGCAGAGCCCCAGGAGGTGCCATGCGGAGCGGTGTGT 480  
Db 421 ACCCCATCGCGAGCTGCCCGCAGAGCCCCAGGAGGTGCCATGCGGAGCGGTGTGT 480

Qy 481 GGTGTCACAGTATGGATCTCTGGCGGCTCTGGCTGGCGGTGGCGGCGCCCTCGC 540  
Db 481 GGTGTCACAGTATGGATCTCTGGCGGCTCTGGCTGGCGGTGGCGGCGCCCTCGC 540

Qy 541 CTTCTCGAGCGGGGCCCCACGTGCACTACGGTGGGGGACCCCCATCCGCTCGCGCA 600  
Db 541 CTTCTCGAGCGGGGCCCCACGTGCACTACGGTGGGGGACCCCCATCCGCTCGCGCA 600

Qy 601 CTTGTACACTTCGGGCCCCACGGGCTCTCCAGCTGCTTCTGCGCATCCGTGCCGAGG 660  
Db 601 CTTGTACACTTCGGGCCCCACGGGCTCTCCAGCTGCTTCTGCGCATCCGTGCCGAGG 660

Qy 661 CGTGTGACTGCGCGGGGCCAGAGCGCACAGTTTGTCTGGAGATCAAGGCAGTCCG 720  
Db 661 CGTGTGACTGCGCGGGGCCAGAGCGCACAGTTTGTCTGGAGATCAAGGCAGTCCG 720

Qy 721 TCTCGGACCGTGGCCATCAAGGCGCTGCACAGCTGCGGTACCTGCAATGGGCGCGA 780  
Db 721 TCTCGGACCGTGGCCATCAAGGCGCTGCACAGCTGCGGTACCTGCAATGGGCGCGA 780

Qy 781 CGGCAAGATGCGGGGTGCTTCACTACTCGGAGGAGACTGTGCTTTGAGGAGGAGAT 840  
Db 781 CGGCAAGATGCGGGGTGCTTCACTACTCGGAGGAGACTGTGCTTTGAGGAGGAGAT 840

Qy 841 CCGGCCAGATGGCTACAAATGTACCGATCGGAGAACCGCGCTCCCGTCTCCCTGAG 900  
Db 841 CCGGCCAGATGGCTACAAATGTACCGATCGGAGAACCGCGCTCCCGTCTCCCTGAG 900

Qy 901 CAGTGCCAAACAGCGCAGCTGTACAAGAACAGAGGCTTTCTTCCACTCTCTCATTTCT 960  
Db 901 CAGTGCCAAACAGCGCAGCTGTACAAGAACAGAGGCTTTCTTCCACTCTCTCATTTCT 960

Qy 961 GCCCATGCTGCCCATGGTCCAGGAGGCTGAGGAGCTCAGGGGCCACTTGGAAATCTGA 1020  
Db 961 GCCCATGCTGCCCATGGTCCAGGAGGCTGAGGAGCTCAGGGGCCACTTGGAAATCTGA 1020

Qy 1021 CATCTTCTCTTCGCCCTGGAGACCGACAGCATGACCCATTTCGGCTGTGTCACCGACT 1080  
Db 1021 CATCTTCTCTTCGCCCTGGAGACCGACAGCATGACCCATTTCGGCTGTGTCACCGACT 1080

Qy 1081 GGAGGCGCTGAGGAGTCCCAGCTTTGAGAAGTAACAGACCATGCCCGGGCCTCTTCAC 1140  
Db 1081 GGAGGCGCTGAGGAGTCCCAGCTTTGAGAAGTAACAGACCATGCCCGGGCCTCTTCAC 1140

Qy 1141 TGCTGCAGGGGCTGTGTACCTGCAGGTGGGGAGGCTGCTTCTACAAGAACAGTCTCTG 1200  
Db 1141 TGCTGCAGGGGCTGTGTACCTGCAGGTGGGGAGGCTGCTTCTACAAGAACAGTCTCTG 1200

Qy 1201 AGTCCAGCTTCTGTAGCTTTAGGAAGAACATCTAGAAGTTGTACATATTTCAGAGTTT 1260  
Db 1201 AGTCCAGCTTCTGTAGCTTTAGGAAGAACATCTAGAAGTTGTACATATTTCAGAGTTT 1260

Qy 1261 TCCATTGGCAGTGCAGTTTCTAGCCCAATAGACTTTGTCTGATCAATAACATTTTAAGCCTG 1320  
Db 1261 TCCATTGGCAGTGCAGTTTCTAGCCCAATAGACTTTGTCTGATCAATAACATTTTAAGCCTG 1320

Qy 1321 TAGCTGCCAGCTGCTGCCTGGGCCCCCATTTCTGCTCCCTCGAGGTTGCTGGACAAGCT 1380  
Db 1321 TAGCTGCCAGCTGCTGCCTGGGCCCCCATTTCTGCTCCCTCGAGGTTGCTGGACAAGCT 1380

Qy 1381 GCTCACTGTCTCAGTTCTGCTTGAATACCTCCATCGATGGGAACTCACTTCTCTTTGGA 1440  
Db 1381 GCTCACTGTCTCAGTTCTGCTTGAATACCTCCATCGATGGGAACTCACTTCTCTTTGGA 1440

Qy 1441 AAAATTTTCAAGCTGAAATTTCTAATTTTTCATCACTTCCCGCAGAGCAGC 1500  
Db 1441 AAAATTTTCAAGCTGAAATTTCTAATTTTTCATCACTTCCCGCAGAGCAGC 1500

Qy 1501 CAGAAAGACAGCAGTGTAAATTTTCAGGAACAGGTGATCCACTCTGTAACACAGCAGG 1560  
Db 1501 CAGAAAGACAGCAGTGTAAATTTTCAGGAACAGGTGATCCACTCTGTAACACAGCAGG 1560

Qy 1561 TAAATTTTCACTCAACCCCATGTGGGAATTGATCTATATCTACTTCCAGSGACCATTTG 1620  
Db 1561 TAAATTTTCACTCAACCCCATGTGGGAATTGATCTATATCTACTTCCAGSGACCATTTG 1620

Qy 1621 CCCTTCCCAATCCCTCAGGCCAGAACTGACTGGAGCAGGCATGGCCACCCAGGCTTCA 1680  
Db 1621 CCCTTCCCAATCCCTCAGGCCAGAACTGACTGGAGCAGGCATGGCCACCCAGGCTTCA 1680

Qy 1681 GGAGTAGGGAAGCCTGGAGCCCCACCTCCAGCCTGGGAACTTGAGAAATTCCTCCCTGA 1740  
Db 1681 GGAGTAGGGAAGCCTGGAGCCCCACCTCCAGCCTGGGAACTTGAGAAATTCCTCCCTGA 1740

Qy 1741 GGCCAGTTCTGTCATGGATGCTGCTGAGAATAAATTTGTTGCTCCCGTGTCACTTGT 1800  
Db 1741 GGCCAGTTCTGTCATGGATGCTGCTGAGAATAAATTTGTTGCTCCCGTGTCACTTGT 1800

Qy 1801 CCATCTCCAGCCCAACAGGCGCTCTGCCACCTCACATGCTCCCATGGAATGGGGGCT 1860  
Db 1801 CCATCTCCAGCCCAACAGGCGCTCTGCCACCTCACATGCTCCCATGGAATGGGGGCT 1860

Qy 1861 CCCAGGCCCCCAGCTTATGTCAACCTGCACTTCTTCTCAAAATCAGGAAGAAAG 1920  
Db 1861 CCCAGGCCCCCAGCTTATGTCAACCTGCACTTCTTCTCAAAATCAGGAAGAAAG 1920

Qy 1921 ATTTGAAGACCCCAAGCTTTGTCAATTAATTTGCTGTGGAGCAGCGGGGAGACCTA 1980  
Db 1921 ATTTGAAGACCCCAAGCTTTGTCAATTAATTTGCTGTGGAGCAGCGGGGAGACCTA 1980

QY 1981 GAACCCCTTCCCGCAGCAGCTGGTTTCCCAACATGATATTTATGAGTAATTTATTTGATA 2040  
Db 1981 GAACCCCTTCCCGCAGCAGCTGGTTTCCCAACATGATATTTATGAGTAATTTATTTGATA 2040  
QY 2041 TGTACATCTCTATTTTCTTACATTTATTTATGCCCCCAATTTATTTATGTAAGT 2100  
Db 2041 TGTACATCTCTATTTTCTTACATTTATTTATGCCCCCAATTTATTTATGTAAGT 2100  
QY 2101 GAGGTTTGGTTTGTATATTTAAATGAGTTTGGTTTGT 2137  
Db 2101 GAGGTTTGGTTTGTATATTTAAATGAGTTTGGTTTGT 2137

RESULT 8  
US-09-906-742-58  
: Sequence 58, Application US/09906742  
: Publication No. US20030023054A1  
: GENERAL INFORMATION:  
: APPLICANT: Genentech, Inc.  
: APPLICANT: Ashkenazi, Avi  
: APPLICANT: Botstein, David  
: APPLICANT: Desnoyers, Luc  
: APPLICANT: Eaton, Dan L.  
: APPLICANT: Ferrara, Napoleone  
: APPLICANT: Filvaroff, Ellen  
: APPLICANT: Fong, Sherman  
: APPLICANT: Gao, Wei-Qiang  
: APPLICANT: Gerber, Hanspeter  
: APPLICANT: Gerritsen, Mary E.  
: APPLICANT: Goddard, A.  
: APPLICANT: Godowski, Paul J.  
: APPLICANT: Grimaldi, Christopher J.  
: APPLICANT: Gurney, Austin L.  
: APPLICANT: Hillan, Kenneth, J.  
: APPLICANT: Kljavin, Ivar J.  
: APPLICANT: Mather, Jennie P.  
: APPLICANT: Pan, James  
: APPLICANT: Paoni, Nicholas F.  
: APPLICANT: Roy, Margaret Ann  
: APPLICANT: Stewart, Timothy A.  
: APPLICANT: Tumas, Daniel  
: APPLICANT: Williams, P. Mickey  
: APPLICANT: Wood, William, I.  
: TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
: FILE OF INVENTION: Acids Encoding the Same  
: FILE REFERENCE: 10466-14  
: CURRENT APPLICATION NUMBER: US/09/906,742  
: CURRENT FILING DATE: 2001-07-16  
: PRIOR APPLICATION NUMBER: 09/665,350  
: PRIOR FILING DATE: 2000-09-18  
: PRIOR APPLICATION NUMBER: PCT/US00/04414  
: PRIOR FILING DATE: 2000-02-22  
: PRIOR APPLICATION NUMBER: US 60/143,048  
: PRIOR FILING DATE: 1999-07-07  
: PRIOR APPLICATION NUMBER: US 60/145,698  
: PRIOR FILING DATE: 1999-07-26  
: PRIOR APPLICATION NUMBER: US 60/146,222  
: PRIOR FILING DATE: 1999-07-28  
: PRIOR APPLICATION NUMBER: PCT/US99/20594  
: PRIOR FILING DATE: 1999-09-08  
: PRIOR APPLICATION NUMBER: PCT/US99/20944  
: PRIOR FILING DATE: 1999-09-13  
: PRIOR APPLICATION NUMBER: PCT/US99/21090  
: PRIOR FILING DATE: 1999-09-15  
: PRIOR APPLICATION NUMBER: PCT/US99/21547  
: PRIOR FILING DATE: 1999-09-15  
: PRIOR APPLICATION NUMBER: PCT/US99/23089  
: PRIOR FILING DATE: 1999-10-05  
: PRIOR APPLICATION NUMBER: PCT/US99/28214  
: PRIOR FILING DATE: 1999-11-29  
: PRIOR APPLICATION NUMBER: PCT/US99/28313  
: PRIOR FILING DATE: 1999-11-30  
: PRIOR APPLICATION NUMBER: PCT/US99/28564

: PRIOR FILING DATE: 1999-12-02  
: PRIOR APPLICATION NUMBER: PCT/US99/28565  
: PRIOR FILING DATE: 1999-12-02  
: PRIOR APPLICATION NUMBER: PCT/US99/30095  
: PRIOR FILING DATE: 1999-12-16  
: PRIOR APPLICATION NUMBER: PCT/US99/30911  
: PRIOR FILING DATE: 1999-12-20  
: PRIOR APPLICATION NUMBER: PCT/US99/30999  
: PRIOR FILING DATE: 1999-12-20  
: PRIOR APPLICATION NUMBER: PCT/US00/00219  
: PRIOR FILING DATE: 2000-01-05  
: NUMBER OF SEQ ID NOS: 423  
: SEQ ID NO 58  
: LENGTH: 2137  
: TYPE: DNA  
: ORGANISM: Homo Sapien  
US-09-906-742-58  
Query Match 100.0%; Score 2137; DB 9; Length 2137;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GCTCCAGCAAGAACCTCGGGCCGCTGCGGCTGGGAGGAGTTCCCGAATTCGGC 60  
Db 1 GCTCCAGCAAGAACCTCGGGCCGCTGCGGCTGGGAGGAGTTCCCGAATTCGGC 60  
QY 61 CGCTAAGCAGGCTCTCTCTCCGCGAGATCCGAACGGCTGCGCGGGGTACGTCGGCT 120  
Db 61 CGCTAAGCAGGCTCTCTCTCCGCGAGATCCGAACGGCTGCGCGGGGTACGTCGGCT 120  
QY 121 GGGACAAGAGCGCGCCCTGCTTCCCGGGGCGCGGGGAGGGGCTTGGGCTTGGGCGG 180  
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QY 181 AGCGGGGTGTGAGTGGGTGTGTGCGGGGGGGGAGGCTTGATGCAATCCCGATAGAAA 240  
Db 181 AGCGGGGTGTGAGTGGGTGTGTGCGGGGGGGGAGGCTTGATGCAATCCCGATAGAAA 240  
QY 241 TGCTCGGTGTCTTTGGGCACCTACCGTGGGGCCCGTAAGGCGCTACTATATAAGGCTGC 300  
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QY 301 CGGCGGAGCGCGCGCGCGCTCAGAGCAGGAGCGCTGCGTCCAGGATCTTAGGCGCAGCA 360  
Db 301 CGGCGGAGCGCGCGCGCGCTCAGAGCAGGAGCGCTGCGTCCAGGATCTTAGGCGCAGCA 360  
QY 361 CCATCCCAACCGGCACTCACAGCCCGCGAGCCGCTCCCGTCCCGCCAGCCTCCCGC 420  
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QY 421 ACCCCCATCGCGGAGCTGCGCGCGAGAGCGCCAGGAGGCTGCCATCGGAGCGGTGTGT 480  
Db 421 ACCCCCATCGCGGAGCTGCGCGCGAGAGCGCCAGGAGGCTGCCATCGGAGCGGTGTGT 480  
QY 481 GGTGTTCACGATGATGATCTTGGCGGGCGCTCTGGTGTGGCGGTGGCGGGCGGCGCTCGC 540  
Db 481 GGTGTTCACGATGATGATCTTGGCGGGCGCTCTGGTGTGGCGGTGGCGGGCGGCGCTCGC 540  
QY 541 CTTCTCGGAGCGGGCGCGCGCGCTACCGCTACCGCTGGGGGAGCGCCATCCGCTGGGGA 600  
Db 541 CTTCTCGGAGCGGGCGCGCGCGCTACCGCTACCGCTGGGGGAGCGCCATCCGCTGGGGA 600  
QY 601 CCTGTACACCTCGGGCGCGCGCGCTCTCCAGCTGCTTCTTCCGTCGTCGTCGTCGTCG 660  
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QY 661 CGTCGTGGACTGCGCGGGGGCGCAGAGCGCGCACAGTTTGTGGAGATCAAGCGAGTCGC 720  
Db 661 CGTCGTGGACTGCGCGGGGGCGCAGAGCGCGCACAGTTTGTGTGGAGATCAAGCGAGTCGC 720  
QY 721 TCTGGGACCGTGGCCATCAAGGGCGTGCACAGCGTGCAGCTTCTGCTGATGAGCGCGCA 780  
Db 721 TCTGGGACCGTGGCCATCAAGGGCGTGCACAGCGTGCAGCTTCTGCTGATGAGCGCGCA 780



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; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
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; PRIOR APPLICATION NUMBER: PCT/US99/30095
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; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 58
; LENGTH: 2137
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-906-838-58

Query Match      100.0%; Score 2137; DB 9; Length 2137;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCCAGCCAAAGAACCTCGGGGCGCTGCGCGGTGGGAGGAGTTCGCCGAAACCCGCG 60
DB 1 GCTCCAGCCAAAGAACCTCGGGGCGCTGCGCGGTGGGAGGAGTTCGCCGAAACCCGCG 60

QY 61 CGCTAAGCGAGCCTCTCTCTCCCGCAGATCCGACGCGCTGGCGGGGTACACCGGCT 120
DB 61 CGCTAAGCGAGCCTCTCTCTCCCGCAGATCCGACGCGCTGGCGGGGTACACCGGCT 120

QY 121 GGGACAAGACCGCGCGCTGCTCGCGCGGCGCGGAGGGGCTGGGGCTGGGGCGCG 180
DB 121 GGGACAAGACCGCGCGCTGCTCGCGCGGCGCGGAGGGGCTGGGGCTGGGGCGCG 180

QY 181 AGGCGGGGTGATGAGTGGGTGTGCGGGGGCGGAGGCTTGATGAATCCCGATAGAA 240
DB 181 AGGCGGGGTGATGAGTGGGTGTGCGGGGGCGGAGGCTTGATGAATCCCGATAGAA 240

QY 241 TGCTCGGGTGTCTTGGGACCTACCGGTGGGCGCGTAAGGCGCTACTATATAAGGCTGC 300
DB 241 TGCTCGGGTGTCTTGGGACCTACCGGTGGGCGCGTAAGGCGCTACTATATAAGGCTGC 300

QY 301 CGGCGCGAGCGCGCGCGCTGTCAGAGCAGGAGCGCTGCGTCCAGGATCTAGGGCCACGA 360
DB 301 CGGCGCGAGCGCGCGCGCTGTCAGAGCAGGAGCGCTGCGTCCAGGATCTAGGGCCACGA 360

QY 361 CCATCCCAACCGCGCACTACAGCCCGCGGAGCGGATCCGGTCCGCGCGCGCGCGCG 420
DB 361 CCATCCCAACCGCGCACTACAGCCCGCGGAGCGGATCCGGTCCGCGCGCGCGCGCG 420

QY 421 ACCCCCATCGCGGAGCTGCGCGGAGAGCCCGAGGAGGTGCCATCGCGACGCGGTGTCT 480
DB 421 ACCCCCATCGCGGAGCTGCGCGGAGAGCCCGAGGAGGTGCCATCGCGACGCGGTGTCT 480

QY 481 GGTGTCCACGTATGATCTTGGCGGGCTCTGGCTGGCGGCTGGCGGGCGCGCGCTCGC 540
DB 481 GGTGTCCACGTATGATCTTGGCGGGCTCTGGCTGGCGGCTGGCGGGCGCGCGCTCGC 540

QY 541 CTTCTCGGACGGGGGGCGCGAGTACGCTACGGCTGGGGCGACCCCATCGCGCTCGGGCA 600
DB 541 CTTCTCGGACGGGGGGCGCGAGTACGCTACGGCTGGGGCGACCCCATCGCGCTCGGGCA 600

QY 601 CTTGTACACCTCCGCGCGCGCGCTCTCCAGCTGCTTCTCGCGCATCCGCTGGCGAGG 660
DB 601 CTTGTACACCTCCGCGCGCGCGCTCTCCAGCTGCTTCTCGCGCATCCGCTGGCGAGG 660
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DB 661 CGTCTGGACTGCGCGCGGGGCCAGAGCGGCACAGTTTGTGTGGAGATCAAGCAAGTCCG 720

QY 721 TCTGCGGACCGTGGGCATCAAGGGGTGCACAGCGTGGGTACCTCTGATGAGGCGCGCA 780
DB 721 TCTGCGGACCGTGGGCATCAAGGGGTGCACAGCGTGGGTACCTCTGATGAGGCGCGCA 780

QY 781 CGGCAAGATGCGAGGCGCTTTCAGTACTCGGAGGAAGACTGTGCTTTTCGAGCAAGAT 840
DB 781 CGGCAAGATGCGAGGCGCTTTCAGTACTCGGAGGAAGACTGTGCTTTTCGAGCAAGAT 840

QY 841 CGGCGCAGATGCTACAAATGCTACCGATCCGAGAGACACCGCTTCCGTTTCCGTGAG 900
DB 841 CGGCGCAGATGCTACAAATGCTACCGATCCGAGAGACACCGCTTCCGTTTCCGTGAG 900

QY 901 CAGTGCCAAACAGCGGCGCTGTACAAGAACAGAGGCTTTTTCGACTCTCTCAATTCCT 960
DB 901 CAGTGCCAAACAGCGGCGCTGTACAAGAACAGAGGCTTTTTCGACTCTCTCAATTCCT 960

QY 961 GCCCATGCTGCCCATGGTCCGAGAGGAGCTCAGGACCTCAGGGGCGACTTGGATCTGA 1020
DB 961 GCCCATGCTGCCCATGGTCCGAGAGGAGCTCAGGACCTCAGGGGCGACTTGGATCTGA 1020

QY 1021 CATGTTCTCTTCCGCGCTGGAGACCGACAGCATGGACCCATTTGGGCTTGTTCAGTGC 1080
DB 1021 CATGTTCTCTTCCGCGCTGGAGACCGACAGCATGGACCCATTTGGGCTTGTTCAGTGC 1080

QY 1081 GGAGCGGTGAGGAGTCCGAGCTTTGAGAAGTAAGTACAGAGCATGCCGGGCTCTTCAC 1140
DB 1081 GGAGCGGTGAGGAGTCCGAGCTTTGAGAAGTAAGTACAGAGCATGCCGGGCTCTTCAC 1140

QY 1141 TGCTGCCAGGGCTGTGGTACCTGCAGCGTGGGAGCGTCTTCTACAGAGACAGTCCCTG 1200
DB 1141 TGCTGCCAGGGCTGTGGTACCTGCAGCGTGGGAGCGTCTTCTACAGAGACAGTCCCTG 1200

QY 1201 AGTCCACGTTCTGTTTAGCTTTAGGAAGAACATCTAGAAGTTGTACATATTACAGATT 1260
DB 1201 AGTCCACGTTCTGTTTAGCTTTAGGAAGAACATCTAGAAGTTGTACATATTACAGATT 1260

QY 1261 TCCATTGGCAGTGCAGATTTCTAGCCAATAGACTTGTCTGATCATAACTTTGTAAGCCTG 1320
DB 1261 TCCATTGGCAGTGCAGATTTCTAGCCAATAGACTTGTCTGATCATAACTTTGTAAGCCTG 1320

QY 1321 TAGCTTGGCCAGCTGCTGCTGGCGCCCATTTCTGCTCCCTCGAGGTTCTCGCAAGCT 1380
DB 1321 TAGCTTGGCCAGCTGCTGCTGGCGCCCATTTCTGCTCCCTCGAGGTTCTCGCAAGCT 1380

QY 1381 GCTGCACTGTCTCAGTTTGAATACCTCCATCGATGGGAACTCACTTCTTTTGA 1440
DB 1381 GCTGCACTGTCTCAGTTTGAATACCTCCATCGATGGGAACTCACTTCTTTTGA 1440

QY 1441 AAAATTCATGTCAGCTGAAATTTCTAAATTTTTCATCATCTCCCGAGGACAGC 1500
DB 1441 AAAATTCATGTCAGCTGAAATTTCTAAATTTTTCATCATCTCCCGAGGACAGC 1500

QY 1501 CAGAGACAGGCGAGTGTAAATTCAGGAACAGGTGATCCACTCTGTAAACAGCAG 1560
DB 1501 CAGAGACAGGCGAGTGTAAATTCAGGAACAGGTGATCCACTCTGTAAACAGCAG 1560

QY 1561 TAAATTCACATCAACCCCATGTGGAAATTTGATATATCTACTTCCAGGAACTTTG 1620
DB 1561 TAAATTCACATCAACCCCATGTGGAAATTTGATATATCTACTTCCAGGAACTTTG 1620

QY 1621 CCCTTCCCAATCCCTCCAGCCAGAACTGACTGGAGAGGATGCCCGACAGGTTTCA 1680
DB 1621 CCCTTCCCAATCCCTCCAGCCAGAACTGACTGGAGAGGATGCCCGACAGGTTTCA 1680

QY 1681 GGAGTAGGGGAAGCCTGGAGGCCCTCAGCGCTGGGACAACTTGAGAAATTCCTCTGA 1740
DB 1681 GGAGTAGGGGAAGCCTGGAGGCCCTCAGCGCTGGGACAACTTGAGAAATTCCTCTGA 1740
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Db 541 CTTCTCGGACGGGGCCCCACGTCACTACGGCTGGGGCGACCCCATCCGCTCGGCA 600  
Qy CTTGTACACCTCCGGCCCCACGGGCTCTCCAGCTGCTTCCTGGCGCATCCGTCGGCAGG 660  
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Qy CTTCTGGACTCGCGCGGGGGCCAGAGCGGCACAGTTCGTCGAGATCAAGGCACTCGC 720  
Db CTTCTGGACTCGCGCGGGGGCCAGAGCGGCACAGTTCGTCGAGATCAAGGCACTCGC 720  
Qy TCTGCGGACGTCGTCATCAAGGGCGTCACAGCGTGGGTACCTTCGATGGGCGCGCA 780  
Db TCTGCGGACGTCGTCATCAAGGGCGTCACAGCGTGGGTACCTTCGATGGGCGCGCA 780  
Qy CGCAAGATGACAGGGGCTGCTTCAGTACTCGGAGGAAGACTGCTGCTTCGAGGAGGAGAT 840  
Db CGCAAGATGACAGGGGCTGCTTCAGTACTCGGAGGAAGACTGCTGCTTCGAGGAGGAGAT 840  
Qy CGCCCGATGCTACATGTGTACCGATCGGAGAGCAGCGCTCCCGGTCTCCCTGAG 900  
Db CGCCCGATGCTACATGTGTACCGATCGGAGAGCAGCGCTCCCGGTCTCCCTGAG 900  
Qy CAGTCCCAACAGCGCGCAGCTGTACAGAACAGAGGCTTCCTCCACTCTCTCATTTCT 960  
Db CAGTCCCAACAGCGCGCAGCTGTACAGAACAGAGGCTTCCTCCACTCTCTCATTTCT 960  
Qy GCCATGCTGCCATGGTCCCGAGAGGCGCTGAGGACCTCAGGGGCCACTTGGAAATCTGA 1020  
Db GCCATGCTGCCATGGTCCCGAGAGGCGCTGAGGACCTCAGGGGCCACTTGGAAATCTGA 1020  
Qy CATGTTCTCTGCGCCCTGGAGACCGACGATGAGCCCATTTGGGGCTGTACCCGACT 1080  
Db CATGTTCTCTGCGCCCTGGAGACCGACGATGAGCCCATTTGGGGCTGTACCCGACT 1080  
Qy GGAGCCCTGAGGAGTCCACGCTTTGAGAAGTAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1140  
Db GGAGCCCTGAGGAGTCCACGCTTTGAGAAGTAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1140  
Qy TGCTGCCAGGGGCTGTGTAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1200  
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Qy AGTCCAGCTTCGTTAGCTTTAGGAAGAACATCTAGAAGTTGTACATATTCAGAGTTT 1260  
Db AGTCCAGCTTCGTTAGCTTTAGGAAGAACATCTAGAAGTTGTACATATTCAGAGTTT 1260  
Qy TCCATTGGCAGTGCAGTTTCTAGCCATAGACTTGTCTGATCATAAGCATTTAAGCCCTG 1320  
Db TCCATTGGCAGTGCAGTTTCTAGCCATAGACTTGTCTGATCATAAGCATTTAAGCCCTG 1320  
Qy TAGCTTGCCAGCTGCTGCCTGGGGCCCCATTCCTGCTCCCTCGAGTTGCTGGACAAGCT 1380  
Db TAGCTTGCCAGCTGCTGCCTGGGGCCCCATTCCTGCTCCCTCGAGTTGCTGGACAAGCT 1380  
Qy GCTGACATGCTCAGTTCGTCTGCTGTAATACCTCCATCGATGGGAACCTCCTCTTTTGA 1440  
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Qy AAAATTCATTATGTCAGCTGAAATTCCTAATTTTTCATCATCAGTTCCTCCAGGAGCAG 1500  
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Qy CAGAAGACAGGCACTAGTTCCTAATTTTTCAGGAACAGGTCATCCACTCTCTAAACAGCAG 1560  
Db CAGAAGACAGGCACTAGTTCCTAATTTTTCAGGAACAGGTCATCCACTCTCTAAACAGCAG 1560  
Qy TAAATTTCACTCAACCCCATGTGGAAATGTATCTATCTACTTCCAGGAGCACTTTG 1620  
Db TAAATTTCACTCAACCCCATGTGGAAATGTATCTATCTACTTCCAGGAGCACTTTG 1620  
Qy CTTTCCCAAAATCCCTCCAGGCCAGAACTGACTGAGCAGGCACTGGCCACAGGCTTCA 1680  
Db CTTTCCCAAAATCCCTCCAGGCCAGAACTGACTGAGCAGGCACTGGCCACAGGCTTCA 1680

Db 1621 CCTTTCCAAAATCCCTCCAGGCCAGAACTGACTGGAGCAGGCATGGCCCAAGCAAGTTCA 1680  
Qy GGAGTAGGGAAGAGCTGGAGCCCACTCCAGCCCTGGGACAACCTTCAGAAATTCCTCA 1740  
Db GGAGTAGGGAAGAGCTGGAGCCCACTCCAGCCCTGGGACAACCTTCAGAAATTCCTCA 1740  
Qy GCCAGTTCTGTCTGATGATGCTGCTGAGAATAACTTCTGCTGCCGGTGTCAACCTGCTT 1800  
Db GCCAGTTCTGTCTGATGATGCTGCTGAGAATAACTTCTGCTGCCGGTGTCAACCTGCTT 1800  
Qy CCATCTCCAGCCCAAGCCCTCTGCCACCTCAGATGCCCTCCCAATGGATTTGGGGCT 1860  
Db CCATCTCCAGCCCAAGCCCTCTGCCACCTCAGATGCCCTCCCAATGGATTTGGGGCT 1860  
Qy CCCAGGCCCCACACCTTATGCAACCTGCACTTCTGTTCAAAAATCAGGAAGAAAG 1920  
Db CCCAGGCCCCACACCTTATGCAACCTGCACTTCTGTTCAAAAATCAGGAAGAAAG 1920  
Qy ATTTGAAGACCCCAAGTCTTTGCAATAACTTCTGCTGTGGAGCAGCGGGGGAAGACCTA 1980  
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Qy GAACCTTTTCCCGCAGCACTTGGTTTCCCAACATGATATTTAGTAAATTTATTGATA 2040  
Db GAACCTTTTCCCGCAGCACTTGGTTTCCCAACATGATATTTAGTAAATTTATTGATA 2040  
Qy TGTACATCTCTTATTTTCTTACATTTATGCCCCCAATTTATTTATGTAAGT 2100  
Db TGTACATCTCTTATTTTCTTACATTTATGCCCCCAATTTATTTATGTAAGT 2100  
Qy GAGTTCCTTTTGTATATTTAAATGGAGTTTCTTTCT 2137  
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RESULT 11

US-09-907-942-58

; Sequence 58, Application US/09907942

; Publication No. US20030027146A1

; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerlitsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/907,942  
; PRIOR FILING DATE: 2002-01-22  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048

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Db	541	CTTCTCGGACGCGGGGCCACAGTGCACACTACGGGTGGGGGACCCCATCCGCTCTCGCGCA	600
Qy	601	CCTGTACACCTCCGGCCCCCAGCGGCTCTCCAGTGTCTCTCGGCATCGTGCCTCGACGG	660
Db	601	CCTGTACACCTCCGGCCCCCAGCGGCTCTCCAGTGTCTCTCGGCATCGTGCCTCGACGG	660
Qy	661	CGTCGTGACTGCCGCGGGGCCAGAGCGGCACAGTTTGTCTGGAGATCAAGGCAGTCTGC	720
Db	661	CGTCGTGACTGCCGCGGGGCCAGAGCGGCACAGTTTGTCTGGAGATCAAGGCAGTCTGC	720
Qy	721	TCTCGGAGCGTGCCCATCAAGGGCGTGACAGGTGCGGTACTCTGCATGGGGCGCGA	780
Db	721	TCTCGGAGCGTGCCCATCAAGGGCGTGACAGGTGCGGTACTCTGCATGGGGCGCGCA	780
Qy	781	CGGCAAGATCAGGGGCTGCTTCAGTACTCGGAGGAAGACTGTGCTTTTCGAGGAGGAGAT	840
Db	781	CGGCAAGATCAGGGGCTGCTTCAGTACTCGGAGGAAGACTGTGCTTTTCGAGGAGGAGAT	840
Qy	841	CGGCCCCAGTGGCTACAAATGTATCCGATCCGAGAGCACCGCCTCCCGTCTCCCTGAG	900
Db	841	CGGCCCCAGTGGCTACAAATGTATCCGATCCGAGAGCACCGCCTCCCGTCTCCCTGAG	900
Qy	901	CAGTGCCAAACAGCGGACGTGTACAAGAACACAGAGGCTTTCTTCCACTCTCTCATTTCTCT	960
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; LENGTH: 2137

; TYPE: DNA

; ORGANISM: HO

US-09-907-942-58

Query Match 100.0%; Score 2137; DB 9; Length 2137;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 2137; Conservative 0; Mismatches 0;

Qy 1 GGTCCAGCCAAGAACCTCGGGCCGCTGCGCGGTGGGAGGAGTCCCCGAAACCCGGC 60

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61 CGCTAGCGAGGCCCTCCTCCTCCCGCAGATCCGAACGGGCTGGGGGGCTACCCCGCT 120

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Db 61 CGCTAAGCGAGGCCCTCCTCCTCCCGCAGATCCGAACGGCCTGGCGGGGTACCCCGGT 120

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QY I8I AUGCGGGTGTGAGTGGTGTGTGGGGGGGGTGTGATGCAATCCCGATAAGAAA 241

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UD 161 AGGCGGGTGTGAGTGGTGTGTGGGGGGGGGAGGCTTGTGCAATCCCGATAAGAAA 24

[illegible]

QY 241 TGGTGGTGCTTGGGCACCTACCCGTGGGGCCCTACCTATAAAGGCTGC 30

100

Db 241 TGCTGGGTGCTTGGGCACCTACCCGTGGGGCCCGTAAGGCGCTACTATATAAGGCTGC 30

QY 301 CGGCCGGAGCCGCCGCCGTCAGAGCAGGAGCGCTGCCGTCAGGATCTAGGGCCACGA 36

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Db 301 CGGCCGAGCCGCCGCCGTCAGAGCAGGAGCGCTGCGTCCAGGATCTAGGGCCACGA 36

Qy 361 CCATCCCAACCGGCACTCACAGCCCCCGCAGCGCATCCCGTGCGCGCCAGCCTCCCGC 421

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Db 361 CCATCCCAACCCGGCACTCACAGCCCCGCGAGCGCATCCCGGTGCGCGCCAGCCCTCCCGC 421

Qy 421 ACCCCCATCGCCGGAGCTGCGCCGAGAGCCCCAGGAGGTGCCATGCCGAGCGGGTGT 480

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Db 421 ACCCCCATCGCCGGAGCTGCGCCGAGAGCCCCAGGGAGGTGCCATGCCGGACCGGGTGT 480

QY 1561 TAAATTTCTACTCAACCCCATGTTGGGAATTGATCTATATCTTACTTCCAGGACCACTTGG 1620  
Db 1561 TAAATTTCTACTCAACCCCATGTTGGGAATTGATCTATATCTTACTTCCAGGACCACTTGG 1620  
QY 1621 CCCTTCCCAAAATCCCTCCAGGCCAGAACTGACTGGAGCAGGATGCCCCACAGGCTTCA 1680  
Db 1621 CCCTTCCCAAAATCCCTCCAGGCCAGAACTGACTGGAGCAGGATGCCCCACAGGCTTCA 1680  
QY 1681 GGAGTAGGGGAAGCCTGGAGCCCACTCCAGCCCTGGGCAAACTTGAGAAATTCGCCCTGA 1740  
Db 1681 GGAGTAGGGGAAGCCTGGAGCCCACTCCAGCCCTGGGCAAACTTGAGAAATTCGCCCTGA 1740  
QY 1741 GCCAGTCTGTCTGATGGATGCTGCTCCTGAGAATACTTGCTGCCGGTGTCACTGCTT 1800  
Db 1741 GCCAGTCTGTCTGATGGATGCTGCTCCTGAGAATACTTGCTGCCGGTGTCACTGCTT 1800  
QY 1801 CCATCTCCAGCCCAACAGCCCTCTGCCCACTCACATGCCCTCCCACTGGATTGGGGCT 1850  
Db 1801 CCATCTCCAGCCCAACAGCCCTCTGCCCACTCACATGCCCTCCCACTGGATTGGGGCT 1850  
QY 1861 CCCAGGCCCCCACTTATGTCAACCTGCACCTTCTTGTTCAAAAATCAGGAAAAAGAAAG 1920  
Db 1861 CCCAGGCCCCCACTTATGTCAACCTGCACCTTCTTGTTCAAAAATCAGGAAAAAGAAAG 1920  
QY 1921 ATTTGAAGACCCCAAGTCTTGTCATAAATCTGCTGTGGAGCAGCGGGGGAAGACCTA 1980  
Db 1921 ATTTGAAGACCCCAAGTCTTGTCATAAATCTGCTGTGGAGCAGCGGGGGAAGACCTA 1980  
QY 1981 GAACCCCTTCCCAAGCACTTGGTTTCCCAACATGATATTTATGATTAATTTTGGATA 2040  
Db 1981 GAACCCCTTCCCAAGCACTTGGTTTCCCAACATGATATTTATGATTAATTTTGGATA 2040  
QY 2041 TGTACATCTCTATTTTCTTACATTAATTTATGCCCCCAAAATATATTTATGATTAAGT 2100  
Db 2041 TGTACATCTCTATTTTCTTACATTAATTTATGCCCCCAAAATATATTTATGATTAAGT 2100  
QY 2101 GAGGTTTGTGGTATATTAATAATGGAGTTTGTGTTGT 2137  
Db 2101 GAGGTTTGTGGTATATTAATAATGGAGTTTGTGTTGT 2137

RESULT 12  
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; Sequence 85, Application US/10002796  
; Publication No. US20030032057A1  
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; APPLICANT: Wei-Qiang Gao  
; APPLICANT: Hanspeter Gerber  
; APPLICANT: Mary E. Gerritsen  
; APPLICANT: Audrey Goddard  
; APPLICANT: Paul J. Godowski  
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; APPLICANT: Jennie P. Mather  
; APPLICANT: Mary A. Napier  
; APPLICANT: James Pan  
; APPLICANT: Nicholas F. Paoni  
; APPLICANT: Margaret Ann Roy  
; APPLICANT: Timothy A. Stewart  
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; APPLICANT: Colin K. Watanabe  
; APPLICANT: P. Mickey Williams  
; APPLICANT: William I. Wood  
; APPLICANT: Zemin Zang  
; TITLE OF INVENTION: ACIDED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; TITLE OF INVENTION: ACIDS ENCODING THE SAME

; FILE REFERENCE: P31301C1  
; CURRENT APPLICATION NUMBER: US/10/002,796  
; CURRENT FILING DATE: 2001-11-15  
; PRIOR APPLICATION NUMBER: 60/056974  
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; PRIOR APPLICATION NUMBER: 60/059115  
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; PRIOR APPLICATION NUMBER: 60/059263  
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; PRIOR APPLICATION NUMBER: 60/059588  
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; PRIOR FILING DATE: 1997-10-17  
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; PRIOR FILING DATE: 1997-10-24  
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; PRIOR APPLICATION NUMBER: 60/069694  
; PRIOR FILING DATE: 1997-12-16  
; PRIOR APPLICATION NUMBER: 60/074086  
; PRIOR FILING DATE: 1998-02-09  
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; PRIOR APPLICATION NUMBER: 60/079294  
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; PRIOR FILING DATE: 1998-08-10  
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; PRIOR FILING DATE: 1998-09-17  
; PRIOR APPLICATION NUMBER: 60/101922  
; PRIOR FILING DATE: 1998-09-24  
; PRIOR APPLICATION NUMBER: 60/106032  
; PRIOR FILING DATE: 1998-10-28  
; PRIOR APPLICATION NUMBER: 60/109304  
; PRIOR FILING DATE: 1998-11-20  
; PRIOR APPLICATION NUMBER: 60/125778  
; PRIOR FILING DATE: 1999-03-23  
; PRIOR APPLICATION NUMBER: 60/139695  
; PRIOR FILING DATE: 1999-06-15  
; PRIOR APPLICATION NUMBER: 60/145070  
; PRIOR FILING DATE: 1999-07-20  
; PRIOR APPLICATION NUMBER: 60/145698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: 60/149396  
; PRIOR FILING DATE: 1999-08-17  
; PRIOR APPLICATION NUMBER: 60/169495  
; PRIOR FILING DATE: 1999-12-07  
; PRIOR APPLICATION NUMBER: 08/918874  
; PRIOR FILING DATE: 1997-08-26  
; PRIOR APPLICATION NUMBER: 08/933821  
; PRIOR FILING DATE: 1997-09-19  
; PRIOR APPLICATION NUMBER: 08/960507  
; PRIOR FILING DATE: 1997-10-29



QY 661 C G T C T G G A C T C G C G C G G G C C A G A G C G C G A C A G T T T G C T G G A G A T C A A G G C A G T C G C 720  
Db 661 C G T C T G G A C T C G C G C G G G C C A G A G C G C G A C A G T T T G C T G G A G A T C A A G G C A G T C G C 720  
QY 721 T C T G C G G A C C G T G G C C A T C A A G G G C G T G C A G A G C G T G G G T A C C T C T G C A T G G G C G C G A 780  
Db 721 T C T G C G G A C C G T G G C C A T C A A G G G C G T G C A G A G C G T G G G T A C C T C T G C A T G G G C G C G A 780  
QY 781 C G G C A A G A T G C A G G G C T G C T T C A G T A C T C G G A G A A G A C T G C T G C T T T C G A G A G A G A T 840  
Db 781 C G G C A A G A T G C A G G G C T G C T T C A G T A C T C G G A G A A G A C T G C T G C T T T C G A G A G A G A T 840  
QY 841 C G C C C C A G A T G C C T A C A A T F G T A C C G A T C C G A A G A C A C C C C T C C G G T C T C C C T G A G 900  
Db 841 C G C C C C A G A T G C C T A C A A T F G T A C C G A T C C G A A G A C A C C C C T C C G G T C T C C C T G A G 900  
QY 901 C A G T C C C A A A C A G C G C A G C T G T A C A A G A C A G A G C T T T C T T C C A C T C T C T C A T T T C C T 960  
Db 901 C A G T C C C A A A C A G C G C A G C T G T A C A A G A C A G A G C T T T C T T C C A C T C T C T C A T T T C C T 960  
QY 961 G C C A T G C T G C C C A T G G T C C C A G A G A G C C T G A G A C C T C A G G G C C A C T T G G A A T C T G A 1020  
Db 961 G C C A T G C T G C C C A T G G T C C C A G A G A G C C T G A G A C C T C A G G G C C A C T T G G A A T C T G A 1020  
QY 1021 C A T G T T C T T C G C C C C T G G A G A C C G A C A G A T G A C C C A T T T G G G C T T G T C A C C G A C T 1080  
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QY 1081 G A G G C C T G A G A G C T G C C A G C T T T G A A G T A A C T G A G A C C A T C C C G G C C T T C T C A C 1140  
Db 1081 G A G G C C T G A G A G C T G C C A G C T T T G A A G T A A C T G A G A C C A T C C C G G C C T T C T C A C 1140  
QY 1141 T G C T C C C A G G G C T G T G T A C C T G C A G C T G G G G A C C T G C T T C A A A G A A C A C T C C T G 1200  
Db 1141 T G C T C C C A G G G C T G T G T A C C T G C A G C T G G G G A C C T G C T T C A A A G A A C A C T C C T G 1200  
QY 1201 A G T C A C A G T T C T G T T A G C T T T A G A A G A A C A T C T A G A A G T T G T A C A T A T T C A G A G T T 1260  
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QY 1321 T A G C T T G C C C A G C T G C T G C C T G G G C C C A T T C T G C T C C C T G A G G T T G C T G G A A A G C T 1380  
Db 1321 T A G C T T G C C C A G C T G C T G C C T G G G C C C A T T C T G C T C C C T G A G G T T G C T G G A A A G C T 1380  
QY 1381 G C T G C A C T G C T C A G T T C T G C T T G A A T A C C T C C A T G A T G G G A A C T C A C T T C C T T T T G A 1440  
Db 1381 G C T G C A C T G C T C A G T T C T G C T T G A A T A C C T C C A T G A T G G G A A C T C A C T T C C T T T T G A 1440  
QY 1441 A A A A T T C T A T G T C A A G C T G A A A T T C T G T A A T T T T T C T C A T C A C T T C C C A G G A G C A G C 1500  
Db 1441 A A A A T T C T A T G T C A A G C T G A A A T T C T G T A A T T T T T C T C A T C A C T T C C C A G G A G C A G C 1500  
QY 1501 C A G A A C A G C A G C A G T T T A A T T T C A G A A C A G G T G A T C C A C T C T G T A A A A C A G C A G G 1560  
Db 1501 C A G A A C A G C A G C A G T T T A A T T T C A G A A C A G G T G A T C C A C T C T G T A A A A C A G C A G G 1560  
QY 1561 T A A A T T T C A C T C A C C C A C T G T G G A A T T G A T C T A T A T C T A C T T C A G G A C A C A T T T G 1620  
Db 1561 T A A A T T T C A C T C A C C C A C T G T G G A A T T G A T C T A T A T C T A C T T C A C T T C A G G A C A C A T T T G 1620  
QY 1621 C C C T T C C C A A A T C C C T C A G G C C A C A C T G A C T G A G C A G G A C G A T G C C C A C C A G G C T T C A 1680  
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QY 1681 G A G T A G G G A A G C C T G G A G C C C A C C A C C A G C C T G G A C A C A C T T G A G A A T T C C C C C T G A 1740  
Db 1681 G A G T A G G G A A G C C T G G A G C C C A C C A C C A C C C T G G A C A C A C T T G A G A A T T C C C C C T G A 1740  
QY 1741 G C C C A G T T C T G T C A T G G A T G C T C C T G A G A A T A A C T T G C T G C C C G G T G T C A C T G C T T 1800

Db 1741 G C C C A G T T C T G T C A T G G A T G C T G C T G A G A A T A A C T T G C T C C C G G T G T C A C T G C T T 1800  
QY 1801 C C A T C C C A G C C C A C C A G C C C T C T G C C A C C T C A C A T G C C C C C C A T G A T T G G G C C T 1860  
Db 1801 C C A T C C C A G C C C A C C A G C C C T C T G C C A C C T C A C A T G C C C C C C A T G A T T G G G C C T 1860  
QY 1861 C C C A G C C C C C C A C C T T A T G T C A A C C T G A C T T C T T G T T C A A A A T C A G A A A A A A A A G 1920  
Db 1861 C C C A G C C C C C C A C C T T A T G T C A A C C T G A C T T C T T G T T C A A A A I C A G A A A A A A A A G 1920  
QY 1921 A T T T G A A G A C C C A A G T C T T G T C A A T A A C T T C T G T G T G G A A G C A G C G G G G A A A C C T A 1980  
Db 1921 A T T T G A A G A C C C A A G T C T T G T C A A T A A C T T C T G T G T G G A A G C A G C G G G G A A A C C T A 1980  
QY 1981 G A A C C C T T C C C C A C A C T G C T T T C C A A C A T A T T A T T A T T A T T A T T A T T A T T A T T A T T 2040  
Db 1981 G A A C C C T T C C C C A C A C T G C T T T T C C A A C A T A T T A T T A T T A T T A T T A T T A T T A T T A T T 2040  
QY 2041 T G T A C A T C T T A T T T T T T A C A T T A T T A T T A T T A T T A T T A T T A T T A T T A T T A T T A T T A T T 2100  
Db 2041 T G T A C A T C T T A T T T T T T A C A T T A T T A T T A T T A T T A T T A T T A T T A T T A T T A T T A T T A T T 2100  
QY 2101 G A G G T T G T T T T G T A T A T T A A A A T G A G T T T G T T G T 2137  
Db 2101 G A G G T T G T T T T G T A T A T T A A A A T G A G T T T G T T G T 2137

RESULT 13

US-10-066-273-85

; Sequence 85, Application US/10066273

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; GENERAL INFORMATION:

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; APPLICANT: Dan L. Eaton

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; APPLICANT: James Pan

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; APPLICANT: zemin Zang

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

; FILE REFERENCE: P3130RIC2

; CURRENT APPLICATION NUMBER: US/10/066,273

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; PRIOR APPLICATION NUMBER: 10/002,796

; PRIOR FILING DATE: 2001-11-15

; PRIOR APPLICATION NUMBER: 60/056974

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; PRIOR APPLICATION NUMBER: 60/059263

; PRIOR FILING DATE: 1997-09-18

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;; PRIOR FILING DATE: 1998-11-25

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; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/21547

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Matches 2137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 GCTCCACGCAAGAACCTCGGGGCGCTGCCGGTGGGAGGAGTTCGCCGAAACCCGCG 60

QY 61 CCGTAAGCGAGGCGCTCCTCCTCCCGCAGATCCGAACGGGCTGGGGGGGTCAACCCGGGT 120  
Db 61 CCGTAAGCGAGGCGCTCCTCCTCCCGCAGATCCGAACGGGCTGGGGGGGTCAACCCGGGT 120

QY 121 GGGACAAGACCGCGGCTGCCTGCCGGGCGCGGAGGGGCTGGGGCTGGGGCGCG 180  
Db 121 GGGACAAGACCGCGGCTGCCTGCCGGGCGCGGAGGGGCTGGGGCTGGGGCGCG 180

QY 181 AGGCGGGGTGTGAGTGGGTGTGTGGGGGGGGGAGGCTTGATGCAATCCCGATAAGAAA 240  
Db 181 AGGCGGGGTGTGAGTGGGTGTGTGGGGGGGGGAGGCTTGATGCAATCCCGATAAGAAA 240

QY 241 TGTCTCGGGTGTCTTGGGCACCTACCCGTGGGCGCGTAAGGCGCTACTATATAAGGCTGC 300  
Db 241 TGTCTCGGGTGTCTTGGGCACCTACCCGTGGGCGCGTAAGGCGCTACTATATAAGGCTGC 300

QY 301 CGGCGCGAGCGCGCGGCGGTGAGAGCAGGAGCGCTGGTCCAGAGCTAGGGCCACGA 360  
Db 301 CGGCGCGAGCGCGCGGCGGTGAGAGCAGGAGCGCTGGTCCAGAGCTAGGGCCACGA 360

QY 361 CCATCCCAACCGCGACATCACAGCCCGCAGCGCATCCGGTCCGCGCCACGCTCCCGC 420  
Db 361 CCATCCCAACCGCGACATCACAGCCCGCAGCGCATCCGGTCCGCGCCACGCTCCCGC 420

QY 421 ACCCCCATCGCGGAGCTGCGCGAGAGCCCGCAGGAGGTGCCATCGGAGCGGTGTGT 480  
Db 421 ACCCCCATCGCGGAGCTGCGCGAGAGCCCGCAGGAGGTGCCATCGGAGCGGTGTGT 480

QY 481 GGTGTCCACGTATGGATCTTGGCGGGCTCTTCCAGCTGCTTCCGTGGCGGCGCCCTCGC 540  
Db 481 GGTGTCCACGTATGGATCTTGGCGGGCTCTTCCAGCTGCTTCCGTGGCGGCGCCCTCGC 540

QY 541 CTTCTCGGACGGGGCGCCACGTGCTACCGCTGGGGGACCCATCCGCTCGGCA 600  
Db 541 CTTCTCGGACGGGGCGCCACGTGCTACCGCTGGGGGACCCATCCGCTCGGCA 600

QY 601 CCGTACACCTCCGCGCGCCCGCAGCGCTCTCCAGCTGCTTCCGTGGCGATCCGTCGCGAGG 660  
Db 601 CCGTACACCTCCGCGCGCCCGCAGCGCTCTCCAGCTGCTTCCGTGGCGATCCGTCGCGAGG 660

QY 661 CGTGTGACGTGCGCGGGGCGCAGCGCGCACAGTTTGTGGAGATCAAGGCACTCGC 720  
Db 661 CGTGTGACGTGCGCGGGGCGCAGCGCGCACAGTTTGTGGAGATCAAGGCACTCGC 720

QY 721 TCTGGGACCGTGGGCATCAAGGGGTGCACAGCGTGGGTACCTCTGCTGGGCGCGCA 780  
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QY 781 CGGCAAGATGCGGGGCTGCTTCACTCGGAGGAAGACTGTGCTTTTCGAGGAGGAGAT 840  
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QY 841 CCGCCCAAGATGGCTACAAATGTGTACCGATCCGAGAACCCGCTTCCCGTCTCCCTGAG 900

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QY 901 CAGTCCCAAAACAGCGCGAGCTGTACAAGAACACAGAGCTTTCTTCCACTCTCTCAITTCCT 960  
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QY 961 GCCCATGTGCCCATGTGTCGCCAGAGAGGCTGAGGACCTCAGGGGGCACTTGGAACTGA 1020  
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QY 1021 CATGTTCTTTCGCCCTCGGAGACCGACAGCATGGAGCCCATTTGGGCTTGTCAACGGACT 1080  
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QY 1081 GGAGCCGCTGAGGAGTCCAGCTTTTGAAGTAACCTGAGACCATGCCGGGCTGTTCAC 1140  
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QY 1141 TGTCTGCCAGGGGCTGTGTPACCTGCGAGCGTGGGGACGTGCTTCTACAAGAACATTCCTG 1200  
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QY 1201 AGTCCACGCTTCTGTTTAGTCTTTAGGAAGAACATCTAGAGTTGTACATATTCAGAGTTT 1260  
Db 1201 AGTCCACGCTTCTGTTTAGTCTTTAGGAAGAACATCTAGAGTTGTACATATTCAGAGTTT 1260

QY 1261 TCCATTGGCAGTGCCAGTTTCTAGCCAATAGACTTCTCTCATCATCAACATTTGAAGCTTG 1320  
Db 1261 TCCATTGGCAGTGCCAGTTTCTAGCCAATAGACTTCTCTCATCATCAACATTTGAAGCTTG 1320

QY 1321 TAGCTTGGCCAGCTGCTGCTGGGCGCCCATTTCTGCTCCCTCGAGTTGCTTGACAAAGT 1380  
Db 1321 TAGCTTGGCCAGCTGCTGCTGGGCGCCCATTTCTGCTCCCTCGAGTTGCTTGACAAAGT 1380

QY 1381 GCTGCACTGTCTCAGTTCTGCTTGAATACCTCCATCGATGGGGAACCTCACTTCTTTTGA 1440  
Db 1381 GCTGCACTGTCTCAGTTCTGCTTGAATACCTCCATCGATGGGGAACCTCACTTCTTTTGA 1440

QY 1441 AAAATTTCTATCTCAAGCTGAAATTTCTTAATTTTCTCATCATCTCCCGAGGAGCAGC 1500  
Db 1441 AAAATTTCTATCTCAAGCTGAAATTTCTTAATTTTCTCATCATCTCCCGAGGAGCAGC 1500

QY 1501 CAGAACAGAGGAGTGTAAATTTTCAAGAACAGTGTATCCACTCTGTAAACAGCAGG 1560  
Db 1501 CAGAACAGAGGAGTGTAAATTTTCAAGAACAGTGTATCCACTCTGTAAACAGCAGG 1560

QY 1561 TAAATTTCACTCAACCCCATGTGGGAATTTGATCTATATCTACTTCCAGGGAACATTTG 1620  
Db 1561 TAAATTTCACTCAACCCCATGTGGGAATTTGATCTATATCTACTTCCAGGGAACATTTG 1620

QY 1621 CCCTTCCCAAAATCCCTCCAGGCGCAGAACTGACTGGAGAGGATGCCACAGGCTTCA 1680  
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QY 1681 GGAGTAGGGGAAGCGCTGGAGCCCCCCTCAGGCCCTGGGGAACACTTGAGAAITTCCTGTA 1740  
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QY 1741 GGGCAGTTCTGTTCATGGATGCTGCTGAGAAATTAACCTTGTCCCGGTTGCACTTCTT 1800  
Db 1741 GGGCAGTTCTGTTCATGGATGCTGCTGAGAAATTAACCTTGTCCCGGTTGCACTTCTT 1800

QY 1801 CCATCTCCAGCCCGCAGCGCTCTGCCACCTCACATGCCCTCCCATGGAATGGGCGCT 1860  
Db 1801 CCATCTCCAGCCCGCAGCGCTCTGCCACCTCACATGCCCTCCCATGGAATGGGCGCT 1860

QY 1861 CCCAGGCCCGCCACCTTATGTCAACCTGCACCTTCTTGTTCACAAATTCAGGAAAGAAAG 1920  
Db 1861 CCCAGGCCCGCCACCTTATGTCAACCTGCACCTTCTTGTTCACAAATTCAGGAAAGAAAG 1920

QY 1921 ATTTGAGAACCCCAAGCTTGTTCATTAACCTTGTGTGGAAGCAGCGGGGAGAGACCTA 1980  
Db 1921 ATTTGAGAACCCCAAGCTTGTTCATTAACCTTGTGTGGAAGCAGCGGGGAGAGACCTA 1980

Db 1921 ATTGAAGACCCCAAGCTCTGCTCAATCACTTGCTGTGGGAAGCAGCGGGGAAGACCTA 1980  
Qy 1981 GAACCCCTTCCCGAGCACTTGGTTTTCCAAACATGATATTTATGAGTAATTTATTTGATA 2040  
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Db 1981 GAACCCCTTCCCGAGCACTTGGTTTTCCAAACATGATATTTATGAGTAATTTATTTGATA 2040  
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Qy 2041 TGTACATCTCTATTTTCTTACATATTTATGCCCCCAAAATATATTTATGATGTAAGT 2100  
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Qy 2101 GAGGTTTGTGTTGATATTAATAAGGAGTTGTTTGT 2137  
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RESULT 14  
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; Sequence 85, Application US/10066494  
; Publication No. US20030032063A1  
; GENERAL INFORMATION:  
; APPLICANT: Avi J. Ashkenazi  
; APPLICANT: Kevin P. Baker  
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43 PRIOR APPLICATION NUMBER: 09/886342  
44 PRIOR FILING DATE: 2001-06-19  
45 PRIOR APPLICATION NUMBER: PCT/US98/14552  
46 PRIOR FILING DATE: 1998-07-14  
47 PRIOR APPLICATION NUMBER: PCT/US98/18824  
48 PRIOR FILING DATE: 1998-09-10  
49 PRIOR APPLICATION NUMBER: PCT/US98/19093  
50 PRIOR FILING DATE: 1998-09-14  
51 PRIOR APPLICATION NUMBER: PCT/US98/19330  
52 PRIOR FILING DATE: 1998-09-16  
53 PRIOR APPLICATION NUMBER: PCT/US98/19437  
54 PRIOR FILING DATE: 1998-09-17  
55 PRIOR APPLICATION NUMBER: PCT/US98/24855  
56 PRIOR FILING DATE: 1998-11-20  
57 PRIOR APPLICATION NUMBER: PCT/US98/25108  
58 PRIOR FILING DATE: 1998-12-01  
59 PRIOR APPLICATION NUMBER: PCT/US98/25190  
60 PRIOR FILING DATE: 1998-11-25  
61 PRIOR APPLICATION NUMBER: PCT/US99/05028  
62 PRIOR FILING DATE: 1999-03-08  
63 PRIOR APPLICATION NUMBER: PCT/US99/12252  
64 PRIOR FILING DATE: 1999-06-02  
65 PRIOR APPLICATION NUMBER: PCT/US99/20111  
66 PRIOR FILING DATE: 1999-09-01  
67 PRIOR APPLICATION NUMBER: PCT/US99/20594  
68 PRIOR FILING DATE: 1999-09-08  
69 PRIOR APPLICATION NUMBER: PCT/US99/21090  
70 PRIOR FILING DATE: 1999-09-15  
71 PRIOR APPLICATION NUMBER: PCT/US99/21547

Query Match

100.0%; Score 2137; DB 9; Length 2137;

Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 GCTCCACGCAAGAACCTCGGGGCGCTGCGGGTGGGAGGAGTTCCCCGAAACCCGCG 60  
Db 1 GCTCCACGCAAGAACCTCGGGGCGCTGCGGGTGGGAGGAGTTCCCCGAAACCCGCG 60  
Qy 61 CGCTAAGCGAGGCGCTCTCTCCCGCAGATCCGAACGGCTTGGGGGGGTCACTCCGGCT 120  
Db 61 CGCTAAGCGAGGCGCTCTCTCCCGCAGATCCGAACGGCTTGGGGGGGTCACTCCGGCT 120  
Qy 121 GGGACAAGACCGCGCTGCTGCCCGGGGCGGAGGGGCTGGGGTGGGGCGCG 180  
Db 121 GGGACAAGACCGCGCTGCTGCCCGGGGCGGAGGGGCTGGGGTGGGGCGCG 180  
Qy 181 AGGCGGGGTGTAGTGGGTGTGTGCGGGGCGGAGGCTTGTATGCAATCCCATTAAGAAA 240  
Db 181 AGGCGGGGTGTAGTGGGTGTGTGCGGGGCGGAGGCTTGTATGCAATCCCATTAAGAAA 240  
Qy 241 TGCTCGGGTGTCTTGGGCACCTACCCGTGGGGCGCGTAAAGCGCTACTATAAAGGCTGC 300  
Db 241 TGCTCGGGTGTCTTGGGCACCTACCCGTGGGGCGCGTAAAGCGCTACTATAAAGGCTGC 300  
Qy 301 CGGCCGAGCGCGCGCGCTCAGACGAGGAGCGCTGCTCCAGGATCTAGAGTACGA 360  
Db 301 CGGCCGAGCGCGCGCGCTCAGACGAGGAGCGCTGCTCCAGGATCTAGAGTACGA 360  
Qy 361 CCATCCCAACCGCGCTCAGACGCGCGCTCAGACGAGGAGCGCTGCTCCAGGATCTAGAGTACGA 420  
Db 361 CCATCCCAACCGCGCTCAGACGCGCGCTCAGACGAGGAGCGCTGCTCCAGGATCTAGAGTACGA 420  
Qy 421 ACCCCATCGCGGAGCTGCGCGAGAGCGCGCGAGAGTGCATGCGGAGAGTGTGT 480  
Db 421 ACCCCATCGCGGAGCTGCGCGAGAGCGCGCGAGAGTGCATGCGGAGAGTGTGT 480  
Qy 481 GGTGTCCACGTATGATCTTGGCGGCGCTCTGCGTGGCGGTGGCGGCGCTCTGCTGC 540  
Db 481 GGTGTCCACGTATGATCTTGGCGGCGCTCTGCGTGGCGGTGGCGGCGCTCTGCTGC 540  
Qy 541 CTTCTCGGACGGCGCGCGCTACGCTACGCTGGGCGACCGCATCCGCTTCGCGCA 600  
Db 541 CTTCTCGGACGGCGCGCGCTACGCTACGCTGGGCGACCGCATCCGCTTCGCGCA 600  
Qy 601 CCGTACACCTCGCGCGCGCGCTCTCCAGTCTTCTCGCGCATCCGCTTCGCGAGG 660  
Db 601 CCGTACACCTCGCGCGCGCGCTCTCCAGTCTTCTCGCGCATCCGCTTCGCGAGG 660  
Qy 661 CGTGTGACCTCGCGCGCGCGCGCTCAGCGCGCGACAGTTCGTTGGAGATCAAGTCC 720  
Db 661 CGTGTGACCTCGCGCGCGCGCGCTCAGCGCGCGACAGTTCGTTGGAGATCAAGTCC 720  
Qy 721 TCTGCGGACCGTGGCATCAAGGGCTGACAGCGCTGCGGTACCTTCGTCATCGCGCA 780  
Db 721 TCTGCGGACCGTGGCATCAAGGGCTGACAGCGCTGCGGTACCTTCGTCATCGCGCA 780  
Qy 781 CGCAAGATGCAAGGGCTGCTTCACTACTCGGAGGAAGACTGTGCTTCGAGAGAGAT 840  
Db 781 CGCAAGATGCAAGGGCTGCTTCACTACTCGGAGGAAGACTGTGCTTCGAGAGAGAT 840  
Qy 841 CGGCCAGATGGCTACATGTGTACCGATCGAGAGACCGCTCCCGGTCTCTCTGAG 900  
Db 841 CGGCCAGATGGCTACATGTGTACCGATCGAGAGACCGCTCCCGGTCTCTCTGAG 900  
Qy 901 CAGTCCCAACAGCGCGAGCTGTACAAGAGAGAGGCTTCTCTCCACTCTCTCATTTCT 960  
Db 901 CAGTCCCAACAGCGCGAGCTGTACAAGAGAGAGGCTTCTCTCCACTCTCTCATTTCT 960  
Qy 961 GCGCATGCTGCCATGCTGCCAGAGAGGCTTGGAGGCTTGGAGGCTTGGAAATCTGA 1020  
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Qy 1021 CATGTTCTCTTGGCGCGCTGGAGACGCGACAGCATGACCCATTTGGGCTTGTACCGGACT 1080  
Db 1021 CATGTTCTCTTGGCGCGCTGGAGACGCGACAGCATGACCCATTTGGGCTTGTACCGGACT 1080

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Qy 1081 GGAGCGGTGAGGAGTCCCGAGCTTTGAGAGTAAGTAACTGAGACCATGCGCCGGCCCTCTTTCAC 1140  
Db 1081 GGAGCGGTGAGGAGTCCCGAGCTTTGAGAGTAAGTAACTGAGACCATGCGCCGGCCCTCTTTCAC 1140  
Qy 1141 TGTCGCCAGGGGCTGTGGTACCTGCAGCGTGGGGAGCGTGCTTCTACAAGAACAGTCCGT 1200  
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Qy 1201 AGTCCAGCTTCTGTTAGCTTTAGGAGAGAAACATCTAGAGTTGTACATATTAGAGTTT 1260  
Db 1201 AGTCCAGCTTCTGTTAGCTTTAGGAGAGAAACATCTAGAGTTGTACATATTAGAGTTT 1260  
Qy 1261 TCCATTGGCAGTGCCAGCTTTCTAGCCAATAGACTTGTCTGATCAATAACATTGTAAGCCGT 1320  
Db 1261 TCCATTGGCAGTGCCAGCTTTCTAGCCAATAGACTTGTCTGATCAATAACATTGTAAGCCGT 1320  
Qy 1321 TAGCTTGGCAGTGCTGCTGGCCGCCCATTCGTCTCCCTCGAGGTTGCTGGACAAGCT 1380  
Db 1321 TAGCTTGGCAGTGCTGCTGGCCGCCCATTCGTCTCCCTCGAGGTTGCTGGACAAGCT 1380  
Qy 1381 GCTGCACTGCTCAGTTCTGCTTGAATACCTCCATCCATGCGGGAACCTCACTTCTTTGGA 1440  
Db 1381 GCTGCACTGCTCAGTTCTGCTTGAATACCTCCATCCATGCGGGAACCTCACTTCTTTGGA 1440  
Qy 1441 AAAATTCTTATGCAAGCTGAAGTCTCTAATTTTCTCATCACTTCCCGCAGGAGCAGC 1500  
Db 1441 AAAATTCTTATGCAAGCTGAAGTCTCTAATTTTCTCATCACTTCCCGCAGGAGCAGC 1500  
Qy 1501 CAGAAGACAGCAGTATTTTAATTTCCAGGAAGGTGATCCACTCTGTAAAAACAGCAGG 1560  
Db 1501 CAGAAGACAGCAGTATTTTAATTTCCAGGAAGGTGATCCACTCTGTAAAAACAGCAGG 1560  
Qy 1561 TAAATTTCACTCAACCCCATGTGGGAATGATCTATATCTCTACTTCCAGGGACCAATTG 1620  
Db 1561 TAAATTTCACTCAACCCCATGTGGGAATGATCTATATCTCTACTTCCAGGGACCAATTG 1620  
Qy 1621 CCCTTCCCAATCCCTCCAGSCCAGAACTGACTGGAGCAGGCATGGCCACAGGCTTCA 1680  
Db 1621 CCCTTCCCAATCCCTCCAGSCCAGAACTGACTGGAGCAGGCATGGCCACAGGCTTCA 1680  
Qy 1681 GGAGTAGGGGAAGCTGGAGCCCCACCTCCAGCCAGAACTGACTGGAGCAGGCATGGCCACAGGCTTCA 1740  
Db 1681 GGAGTAGGGGAAGCTGGAGCCCCACCTCCAGCCAGAACTGACTGGAGCAGGCATGGCCACAGGCTTCA 1740  
Qy 1741 GGCAGTTCTGTCTATGATGCTGCTCTGAGAACTTGTCTGCCGCTGTCACTTCTCT 1800  
Db 1741 GGCAGTTCTGTCTATGATGCTGCTCTGAGAACTTGTCTGCCGCTGTCACTTCTCT 1800  
Qy 1801 CCATCTCCAGCCACAGCCCTCTGCCACCTCAGATGCTCCCATGATTTGGGCGCT 1860  
Db 1801 CCATCTCCAGCCACAGCCCTCTGCCACCTCAGATGCTCCCATGATTTGGGCGCT 1860  
Qy 1861 CCCAGGCCCCCAGCTTATGCAACCTGCACCTTCTTCTTCAAAATCAGGAAGAAAG 1920  
Db 1861 CCCAGGCCCCCAGCTTATGCAACCTGCACCTTCTTCTTCAAAATCAGGAAGAAAG 1920  
Qy 1921 ATTTGAAGACCCCAAGCTTGTCTCAATAACTTGTCTGTGAAGCAGCGGGGAAGACCTA 1980  
Db 1921 ATTTGAAGACCCCAAGCTTGTCTCAATAACTTGTCTGTGAAGCAGCGGGGAAGACCTA 1980  
Qy 1981 GAACCCCTTCCAGCAGCTGGTTTTCCACATGATATTTATGATAGTAAATTTATTTTGA 2040  
Db 1981 GAACCCCTTCCAGCAGCTGGTTTTCCACATGATATTTATGATAGTAAATTTATTTTGA 2040  
Qy 2041 TGTACATCTCTATTTTCTTACATTTATTTATGCCCCCAATTTATTTATGATGTAAGT 2100  
Db 2041 TGTACATCTCTATTTTCTTACATTTATTTATGCCCCCAATTTATTTATGATGTAAGT 2100  
Qy 2101 GAGCTTTGTTTGTATATAAATGAGGTTGTTTGT 2137  
Db 2101 GAGCTTTGTTTGTATATAAATGAGGTTGTTTGT 2137

## RESULT 15

US-09-904-820-58  
; Sequence 58, Application US/09904820  
; Publication No. US20030036094A1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kijavlin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/904,820  
; PRIOR FILING DATE: 2001-07-13  
; PRIOR APPLICATION NUMBER: 09/665,350  
; PRIOR FILING DATE: 2000-09-18  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08  
; PRIOR APPLICATION NUMBER: PCT/US99/20944  
; PRIOR FILING DATE: 1999-09-13  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/21547  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/23089  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: PCT/US99/28214  
; PRIOR FILING DATE: 1999-11-29  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: 1999-11-30  
; PRIOR APPLICATION NUMBER: PCT/US99/28564  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/28565  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: 1999-12-16  
; PRIOR APPLICATION NUMBER: PCT/US99/30911  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US99/30999  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US00/00219  
; PRIOR FILING DATE: 2000-01-05

; NUMBER OF SEQ ID NOS: 423  
; SEQ ID NO 58  
; LENGTH: 2137  
; TYPE: DNA  
; ORGANISM: Homo Sapien  
US-09-904-820-58

Query Match 100.0%; Score 2137; DB 9; Length 2137;  
Best local Similarity 100.0%; Pred. No. 0;  
Matches 2137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 GCTCCAGCCAGAACCTCGGGGCGCTCGCGGTGGGAGGAGTTCGCCCAAAACCCGCG 60  
Db 1 GCTCCAGCCAGAACCTCGGGGCGCTCGCGGTGGGAGGAGTTCGCCCAAAACCCGCG 60

Oy 61 CGCTAAGGAGGCTCTCTCCCTCCCGAGATCCGAACGGCTTGGGCGGGTCAACCCGGCT 120  
Db 61 CGCTAAGGAGGCTCTCTCCCTCCCGAGATCCGAACGGCTTGGGCGGGTCAACCCGGCT 120

Oy 121 GGGACAAGAGCGCGCGCTCGCTGCCCGGGCCCGGGAGGGGGTGGGGTGGGGCGG 180  
Db 121 GGGACAAGAGCGCGCGCTCGCTGCCCGGGCCCGGGAGGGGGTGGGGTGGGGCGG 180

Oy 181 AGGCGGGGTGTCAGTGGGTGTGTGGGGGGGGGAGGCTTGTATGCAATCCCGATGAAGAA 240  
Db 181 AGGCGGGGTGTCAGTGGGTGTGTGGGGGGGGGAGGCTTGTATGCAATCCCGATGAAGAA 240

Oy 241 TGCTCGGTGTCTTGGGCACCTACCCGTGGGCGCGTAAGGCGCTACTATATAGGCTGC 300  
Db 241 TGCTCGGTGTCTTGGGCACCTACCCGTGGGCGCGTAAGGCGCTACTATATAGGCTGC 300

Oy 301 CGGCCCGAGCGCGCGCGCTCAGAGCAGGAGCGCTCGCTCCAGGATCTAGGGCCACGA 360  
Db 301 CGGCCCGAGCGCGCGCGCTCAGAGCAGGAGCGCTCGCTCCAGGATCTAGGGCCACGA 360

Oy 361 CCATCCCAACCGGCACTACAGCCCGGAGGCGATCCGGTGGCGGCGGCGGCGGCTCCGCG 420  
Db 361 CCATCCCAACCGGCACTACAGCCCGGAGGCGATCCGGTGGCGGCGGCGGCGGCTCCGCG 420

Oy 421 ACCCCCATCGCGGAGCTGCGCGGAGAGCCCGAGGAGGTGCCATGCGGAGCGGTGTGT 480  
Db 421 ACCCCCATCGCGGAGCTGCGCGGAGAGCCCGAGGAGGTGCCATGCGGAGCGGTGTGT 480

Oy 481 GGTGTCCACGTATGGATTCCTGGCGGCTCTGGCTGGCGGCTGGCGGCGGCGGCGGCTCCG 540  
Db 481 GGTGTCCACGTATGGATTCCTGGCGGCTCTGGCTGGCGGCTGGCGGCGGCGGCGGCTCCG 540

Oy 541 CTCTCGGAGCGGGGCGGCGGCGGCTCTCCAGCTGCTCCAGTGGCGGCGGCGGCGGCGGCG 600  
Db 541 CTCTCGGAGCGGGGCGGCGGCGGCTCTCCAGCTGCTCCAGTGGCGGCGGCGGCGGCGGCG 600

Oy 601 CTTGTACACCTCGGCGGCGGCGGCGGCTCTCCAGCTGCTCCAGTGGCGGCGGCGGCGGCGG 660  
Db 601 CTTGTACACCTCGGCGGCGGCGGCGGCTCTCCAGCTGCTCCAGTGGCGGCGGCGGCGGCGG 660

Oy 661 GGTGTGAGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 720  
Db 661 GGTGTGAGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 720

Oy 721 TCTGGGACCGTGGCCATCAAGGGGTGCACAGCGTGGCGGTACCTTCGATGGGCGGCGG 780  
Db 721 TCTGGGACCGTGGCCATCAAGGGGTGCACAGCGTGGCGGTACCTTCGATGGGCGGCGG 780

Oy 781 CGCAAGATGAGGGGCTGCTTCACTCGGAGGAGGAGTGTGCTTTTCGAGGAGGAGAT 840  
Db 781 CGCAAGATGAGGGGCTGCTTCACTCGGAGGAGGAGTGTGCTTTTCGAGGAGGAGAT 840

Oy 841 CGGCCAGATGGCTACAATGTGTACCGATCCGAGAGCAGCGGCTCCCGGTCTCCCTGAG 900  
Db 841 CGGCCAGATGGCTACAATGTGTACCGATCCGAGAGCAGCGGCTCCCGGTCTCCCTGAG 900

Oy 901 CAGTCCCAACAGCGGCGAGCTGTACAAGAACAGAGGCTTTCTTCCACTCTCTCATTTCT 960  
Db 901 CAGTCCCAACAGCGGCGAGCTGTACAAGAACAGAGGCTTTCTTCCACTCTCTCATTTCT 960

Db 901 CAGTCCCAACAGCGGCGAGCTGTACAAGAACAGAGGCTTTCTTCCACTCTCTCATTTCT 960  
Oy 961 GCCCATGCTGCCATGCTGCCAGAGAGCGCTCAGGACCTCAGGGGCCACTTGCATTTCTGA 1020  
Db 961 GCCCATGCTGCCATGCTGCCAGAGAGCGCTCAGGACCTCAGGGGCCACTTGCATTTCTGA 1020

Oy 1021 CATGTTCTTCTGGGCGCTGGGAGACGACAGCATGAGCCCATTTTGGGCTTGTCAATGGACT 1080  
Db 1021 CATGTTCTTCTGGGCGCTGGGAGACGACAGCATGAGCCCATTTTGGGCTTGTCAATGGACT 1080

Oy 1081 GGAGCCCTGAGGAGCTGCCAGCTTTGAGAAGTAACCTGAGACCATCCCGGGCTCTTTCAC 1140  
Db 1081 GGAGCCCTGAGGAGCTGCCAGCTTTGAGAAGTAACCTGAGACCATCCCGGGCTCTTTCAC 1140

Oy 1141 TGCTGCCAGGGCTGTGCTACCTGTCAGCGTGGGGACGCTGCTTCTACAAAGAACGCTCTG 1200  
Db 1141 TGCTGCCAGGGCTGTGCTACCTGTCAGCGTGGGGACGCTGCTTCTACAAAGAACGCTCTG 1200

Oy 1201 AGTCCACGTTCTGTTTGTAGCTTTAGGAAGAACATCTAGAAGTTGTACATATTCAGAGTTT 1260  
Db 1201 AGTCCACGTTCTGTTTGTAGCTTTAGGAAGAACATCTAGAAGTTGTACATATTCAGAGTTT 1260

Oy 1261 TCCATTGGCAGTGCAGTTTCTAGCCAATAGACTTGTCTGATCATAAACATCTAAGCCTG 1320  
Db 1261 TCCATTGGCAGTGCAGTTTCTAGCCAATAGACTTGTCTGATCATAAACATCTAAGCCTG 1320

Oy 1321 TAGCTTGGCCAGCTGCTGCCCTGGGCGCCCATTTCTGCTCCCTCAGGCTTGTCTGCAAGCT 1380  
Db 1321 TAGCTTGGCCAGCTGCTGCCCTGGGCGCCCATTTCTGCTCCCTCAGGCTTGTCTGCAAGCT 1380

Oy 1381 GCTGCACGTCTCAGTGTCTTGAATACCTCCATCGATGGGGAACCTCACTTCTTTTGA 1440  
Db 1381 GCTGCACGTCTCAGTGTCTTGAATACCTCCATCGATGGGGAACCTCACTTCTTTTGA 1440

Oy 1441 AAAATTCTTATGTCAGCTGAAATTTCTAAATTTTCTCATCACTTCCCGAGGAGCAGC 1500  
Db 1441 AAAATTCTTATGTCAGCTGAAATTTCTAAATTTTCTCATCACTTCCCGAGGAGCAGC 1500

Oy 1501 CAGAAGACAGCAGTGTATTTAAATTTTCAAGAACAGGTGCA1TCACACTCTGTAAACACAGCAGG 1560  
Db 1501 CAGAAGACAGCAGTGTATTTAAATTTTCAAGAACAGGTGCA1TCACACTCTGTAAACACAGCAGG 1560

Oy 1561 TAAATTTTCACTCAAGCCCATGTGGGAATTTGATCTATATCTTCTACTTCCAGGAGCAATTTG 1620  
Db 1561 TAAATTTTCACTCAAGCCCATGTGGGAATTTGATCTATATCTTCTACTTCCAGGAGCAATTTG 1620

Oy 1621 CCCTTCCCAATCCCTCCAGGCCAGAACTGACTGAGCAGGAGCATGGCCCATCAAGCTTCA 1680  
Db 1621 CCCTTCCCAATCCCTCCAGGCCAGAACTGACTGAGCAGGAGCATGGCCCATCAAGCTTCA 1680

Oy 1681 GGAGTAGGGAGGAGCTGGAGGCCCACTCCAGCCCTGGGACAACTTGAGAAATTCGCCCTGA 1740  
Db 1681 GGAGTAGGGAGGAGCTGGAGGCCCACTCCAGCCCTGGGACAACTTGAGAAATTCGCCCTGA 1740

Oy 1741 GGCCAGTTCTGTCAATGGATGTGCTCCTGAGAAATACCTTGTCTCCCGGTGTCAATGCTT 1800  
Db 1741 GGCCAGTTCTGTCAATGGATGTGCTCCTGAGAAATACCTTGTCTCCCGGTGTCAATGCTT 1800

Oy 1801 CCATCTCCAGCCCAAGCCCTCTGCCCACTGCTCATGCTCCCATGCTTGGGGCT 1860  
Db 1801 CCATCTCCAGCCCAAGCCCTCTGCCCACTGCTCATGCTCCCATGCTTGGGGCT 1860

Oy 1861 CCCAGGCCCCAGCTTATGTCAACCTGCTTCTTGTTCACAAATCAGGAAAGAAAG 1920  
Db 1861 CCCAGGCCCCAGCTTATGTCAACCTGCTTCTTGTTCACAAATCAGGAAAGAAAG 1920

Oy 1921 ATTTGAGAGCCCAAGCTTGTCAATACCTTGTGTGTGGAGCAGCGGGGAAAGCTA 1980  
Db 1921 ATTTGAGAGCCCAAGCTTGTCAATACCTTGTGTGTGGAGCAGCGGGGAAAGCTA 1980

Oy 1981 GAACCCCTTCCCGACCACTTGGTTTCCAAACATGATATTTATGACTAATTTATTTGATA 2040  
Db 1981 GAACCCCTTCCCGACCACTTGGTTTCCAAACATGATATTTATGACTAATTTATTTGATA 2040

Qy	2041	TGTCATCTCTTAATTTCTTACATTAATATGCCCCCAAAATATATTTATCTATGTAAGT	2100
Db <th>2041</th> <th>TGTCATCTCTTAATTTCTTACATTAATATGCCCCCAAAATATATTTATCTATGTAAGT</th> <th>2100</th>	2041	TGTCATCTCTTAATTTCTTACATTAATATGCCCCCAAAATATATTTATCTATGTAAGT	2100
Qy <th>2101</th> <th>GAGTTTGTTTTCTATATTTAAATGAGTTTCTTTGT</th> <th>2137</th>	2101	GAGTTTGTTTTCTATATTTAAATGAGTTTCTTTGT	2137
Db <th>2101</th> <th>GAGTTTGTTTTCTATATTTAAATGAGTTTCTTTGT</th> <th>2137</th>	2101	GAGTTTGTTTTCTATATTTAAATGAGTTTCTTTGT	2137

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